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Hist. nat. Regnum animale. Class. V.
Insecta. Monographia gen. & species. 410.

~~Zool. N°. 321.~~

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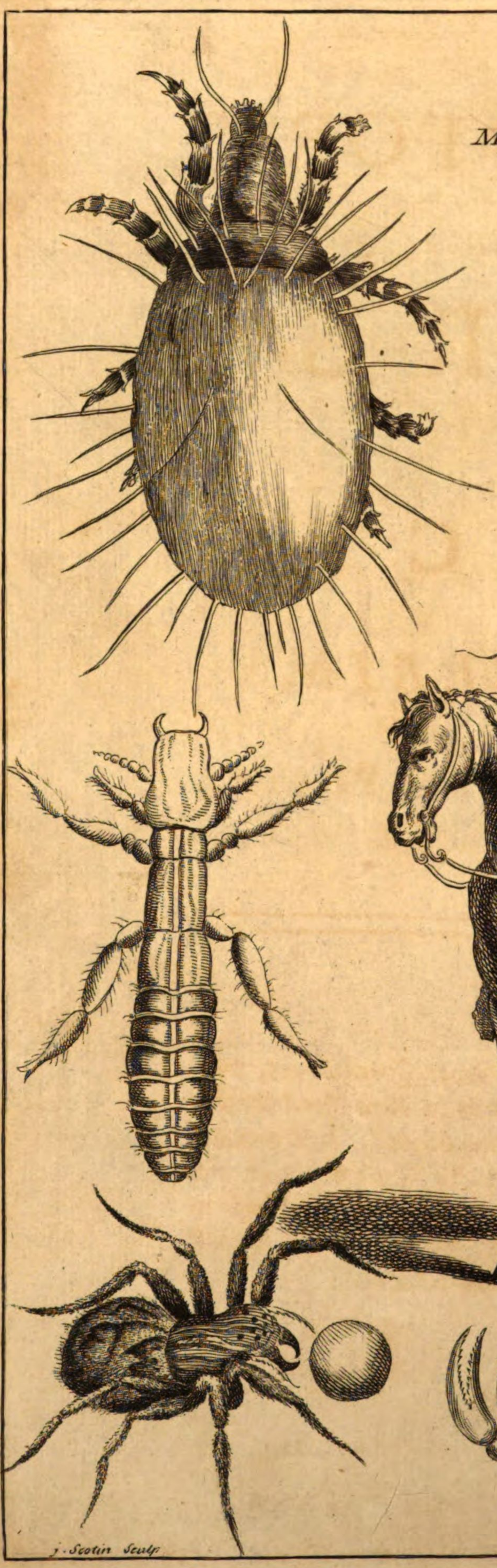

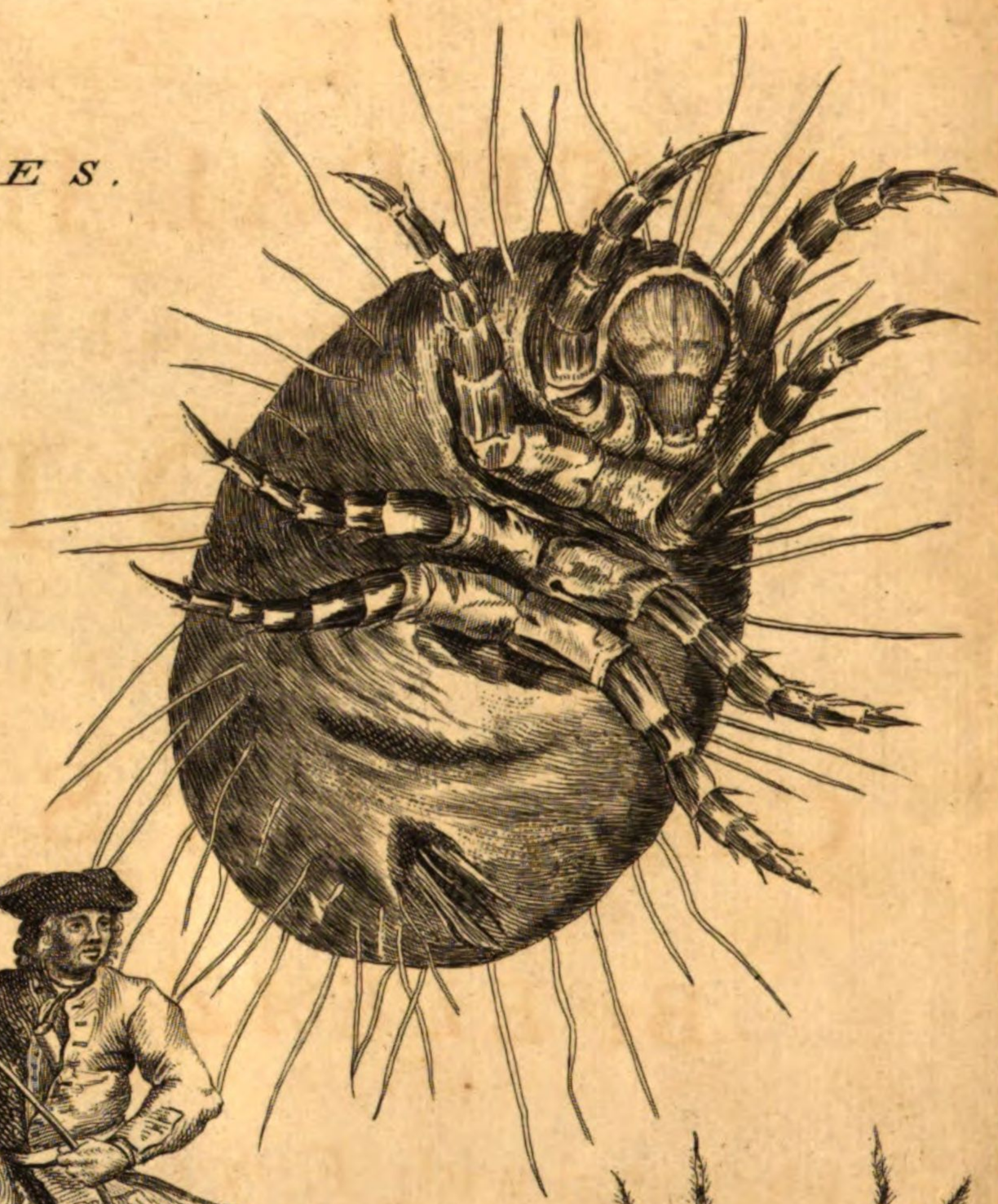

j. Scotin Sculp.

A

NATURAL HISTORY

OF

SPIDERS,

AND OTHER

Curious INSECTS,

By *ELEAZAR ALBIN.*

Illuſtrated with *Fifty three* COPPER PLATES,
Engraven by the Beſt Hands.

LONDON:

Printed by JOHN TILLY, for R. MONTAGU in *Great-Queen-Street*, near *Drury Lane*; J. BRINDLEY at the *King's Arms* in *New Bond Street*; O. PAYNE at *Horace's Head* in *Round-Court* in the *Strand*; J. WORRALL at the *Dove* in *Bell-Yard* near *Lincolns-Inn*; T. WORRALL at the *Judge's Head* in *Fleetſtreet*; T. BOREMAN near *Child's-Coffee-Houſe* in St. *Paul's Church-Yard*, and C. CORBETT at *Addiſon's Head* againſt St. *Dunſtan's Church* in *Fleetſtreet*. M.DCC XXXVI.

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REGIA
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M.DCC.XXXVI.

To the LEARNED

Doctor *MEAD*,

FELLOW of the Royal College of Physicians of *LONDON*,

AND

Physician to HIS MAJESTY.

YOUR approbation of this little work is sufficient to make it favourably received in the world.

FOR as your treatise on poisons has given the learned a universal esteem of your most nice judgment in the works of nature, so, this being introduced to them under your auspicious protection must necessarily recommend it to the acceptance of the publick.

DEDICATION.

THIS, SIR, compleats my ambition from thoſe labours, which I have deſigned for the general improvement of mankind, in the many various intricacies in nature, concerning that inſect, the Spider, of which the philoſophical tranſactions of the year 1671 mention thirty three different ſorts to be found in *England*, but this falls far ſhort of the real number that nature has produced of this inſect; for, here in this treatiſe, near two hundred different ſorts of Spiders are deſcribed. Permit me, to expreſs myſelf, with the profoundeſt reſpect,

HONOURED SIR,

Your moſt humble,

and obedient Servant,

Eleazar Albin.

TO THE READER.

THE great Mr. *Addiſon* in his ſpectator, N°. 121. ſpeaking of thoſe whoſe genius and talents carry them toward natural hiſtory, ſays thus.

" I COULD wiſh that out of ſeveral writers,
" ſome one would take each his particular ſpe-
" cies, and give us a diſtinct account of the frame,
" and texture of its parts, and particularly thoſe
" which diſtinguiſh it from other animals. This

would

To the *READER.*

" would be one of the beſt ſervices their ſtudies
" could do mankind, and not a little redound to
" the glory of the all wiſe creator of them."

I AM proud to own that this ſentiment of this great man has, in conformity to his wiſh, led me to the compiling of this treatiſe on that one particular animal the Spider.

BUT as the world, in intricacies of nature are commonly dubious of the facts related, I aſſure the reader, that the accounts I have here given have been from my own ocular obſervation, having made it my particular care to be extraordinary exact in the collections and obſervations I have made concerning this Inſect.

ON this uſeful wiſh of Mr. *Addiſon*, I have raiſed this building, and ſhall account myſelf very happy, if, among the ſeveral kinds and ſpecies of this inſect, I ſhall here deliver any thing ſo new and uſeful, as ſhall be worthy the notice

notice of the curious, and will be an encouragement to me to proceed, perhaps, farther in other productions of nature, no leſs curious than is this of the Spider. The particular advantages, which an acquaintance with the wonderful productions of nature bring to us, are to inſtruct our underſtanding, and gratify our commendable curioſity; both which ends I have endeavoured to anſwer in this treatiſe, in reſpect of all thoſe curious priers into nature, whoſe deſire leads them to be informed concerning the Spider.

EACH particular ſpecies of this little inſect (of which I have with great pains and labour collected near 200) is here repreſented, and (for ſuch as deſire it) beautified in its proper colours, that the reader may have his curioſity ſatisfied at one view, by what has taken me up a great deal of time and labour, to put ſo exactly together.

AND ſince general enquiries into the works and productions of nature have been a ſtudy ſo

agreeable

agreeable, that it has been the perſuit of the fineſt genius's in all ages, I cannot help flattering myſelf, but that this my particular enquiry into the nature of the Spider will be no leſs agreeable than uſeful to the publick in the cure of intermitting fevers; ſee deſcription N°. 8. of the Houſe Spider.

N. B. In the account of thoſe inſects, found on the bodies of birds, *&c.* contained in the three laſt pages of this work, they are in conformity to the learned author from whence they are taken, there call'd fleas; yet I cannot help differing from that curious gentleman, that thoſe he has delineated have not the properties of the flea kind, but rather of the lice.

E. A.

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Page 1.

Plate I.

A

Natural History
OF
SPIDERS, *&c.*

N°. I.

THIS Spider was of a ſcarlet colour, much reſembling that of velvet; its feelers were ſomething longer than is uſually found in Spiders of this bigneſs. It was found in *Cain-Wood* at the beginning of *June*. They are likewiſe found in gardens on the bodies of trees: theſe laſt are ſomething ſmaller than thoſe found in the woods. Theſe Spiders are accounted venomous.

N°. II.

THIS Spider was of an aſh colour, the upper ſide of the belly marked with black, the under ſide, of the ſame colour, without marks or ſpots. It had two black ſhining ſpots on the fore part of the body, and

three on each ſide, two between the feelers, in theſe ſpots ſtand their eyes, in number eight, placed in a ſemicircular manner, the two uppermoſt being the largeſt. I have obſerved the Spiders, which have their eyes ſtanding in this manner, catch their prey, by jumping on it.

N°. III.

THESE Spiders are of a blackiſh colour, with a lightiſh ſtreak on their back. They are found in the ſpring time running on the ground, under the dead graſs in the fields and hedges. In the beginning of *June*, they are found with their egg-bag, which is flattiſh and of a darkiſh colour, faſtned to the under part of their bellies, which they run very lightly away with. By the beſt obſervation with glaſſes, they are found to have but four eyes; which are placed as they are expreſſed over the head of the Spider in the Plate.

N°. IV.

THIS Spider is of a dark aſh colour, finely ſpotted with black all over the belly, back, and legs; having a ſtreak of white in the middle of the back, and upper ſide of the belly. Its legs are ſomething lighter than the other parts, and the ſpecks ſomething ſmaller. It had ſix eyes, ſtanding as they are placed over the Spider in the Plate, the two foremoſt of which are the leaſt.

N°. V.

THE back of this Spider was of a lead colour, the upper ſide of the belly of a reddiſh or browniſh caſt, finely marked. The legs were marked with large ſpots of black and hair-colour. Its feelers are like ſhining globes, a little inclining to an oval figure, of a dark colour, almoſt black. It could not be diſtinctly obſerved how many eyes it had. It was taken, in the beginning of *April*, on a burdock.

N°. VI.

Plate II.

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Ja.s Smith Sculp.

N°. VI.

THE body and legs of this Spider was of a hair-colour, with a ſmall black mark acroſs the upper end of the back: its belly of a blackiſh colour. It was taken in the fields, in the beginning of *April*. The eyes are ſo ſmall, that it could not be perceived how many it had, or their manner of ſtanding.

N°. VII.

THIS Spider was all over of a light hair-colour, with a black ſpot on the upper ſide of its belly, the under ſide of which was of an aſh colour; it was taken in the fields, in the beginning of *April*, running amongſt the leaves and dead graſs.

N°. VIII.

THIS Spider was of a dark colour, the upper ſide of the belly being finely marked with a row of circular ſpots from the back to the end of the tail with a ſcolloped line on each ſide; the back was dark on each ſide, and light in the middle. It had two eyes ſtanding as they are placed in the Plate, over the head of the Spider. Its feelers were long and ſlender, as are all thoſe of the female Spiders, the male having globular bunches or knobs at the ends of their horns or feelers: the young ones are marked exactly like the old ones; only they look very pale which makes them appear as if they were naked, but may be eaſily known. This is one of the houſe Spiders, whoſe vertues are excellent in the cure of intermitting fevers, when the bark and other remedies have failed, as I have often experienced on ſeveral, both old and young; the uſe of which I will now publiſh for the benefit of the poor and country people, who are remote from the help of phyſicians.

The Uſe. " ℞. As much of the clean web of the houſe Spider as " the weight of two ſcruples; Mithridate two drams; mix and give

" it to the patients the night before the fit; let them take after it " four ounces of treacle-water, and go to bed and cover themſelves " warm, endeavouring to ſweat. They will have a moſt ſevere fit " after the taking the firſt doſe, but after the ſecond doſe it will leave " them. By this method I have cured many people of ſtubborn and " long continu'd *tertian*, *quartan*, and *quotidian* Fevers, particularly " ſome of the ſervants of the Honourable Colonel *Schutz*, when their " taking the Bark for a long time failed: as alſo Dame *Hughs* of *Totten-* " *ham-Court* Road of a *tertian* Ague of three years continuance, with " many others. I have likewiſe cured ſeveral children, both male and " female, by hanging a large Spider confined alive in a box about " their neck, reaching to the pit of the ſtomach, without giving any " internal remedies. Their web, with the addition of Frog-ſpawn, " is a moſt excellent ſtyptick for bleeding at the noſe, or any ſlight " wound of the body."

The Uſe. ℞. " The clean web of the houſe Spider, and dip it in " the ſpawn of Frogs, beaten as you would the whites of eggs, ſeve- " ral times letting it dry on pewter, or earthen plates, between each " time of dipping it, and keep it in a box cloſe ſtopt from air, and " apply it when you have occaſion. With this remedy I ſaved a " gentleman of worth in *Lincolns-Inn-Fields*, who had bled at the " noſe ſeveral hours, when all the applications failed which were uſed " by two eminent Surgeons."

I HAVE obſerv'd, ſince I writ this, a ſmall Ichneumon Fly to lay its eggs on the egg-bags of the houſe Spider, the worms of them penetrating the bag, eat up the eggs, leaving the skins; and then make themſelves ſmall brown caſes, in which they change into Flies, which come out in the beginning of *May*.

N°. IX.

THIS Spider is of a blackiſh colour on the back, the upper ſide of its belly was of a yellowiſh dark aſh-colour, mark'd with black; the

Plate III.

11

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the legs particolour'd of black and hair-colour; the feelers long and ſmooth. It had eight eyes ſtanding as they are placed over the head of the Spider in the Plate. This is one of the female houſe Spiders. It was taken in the beginning of *April*.

N°. X.

THIS Spider was of a black colour where the eyes ſtood; the other part adjoining to the belly was of a rediſh cheſnut colour, the upper ſide of the belly of a yellowiſh dark aſh colour, the legs of this Spider are pretty long and of a rediſh colour, the feelers were globular and hairy, and on the outſides of them there was a bright knob of white, incircled with yellow, which made it appear as if a little ſtone had been ſet therein: it had eight eyes ſtanding as they are expreſſed over the Spider in the Plate. This was a male Spider, and was taken in a houſe in the beginning of *April*.

N°. XI.

THIS ſmall Spider is of a browniſh colour with a yellow mark croſs part of the belly next the back, the upper ſide of the belly being marked with a large triangular mark with a croſs in it; the legs were ſpotted: it had long feelers, and four eyes, which were perceptible, ſtanding as they are expreſſed over the Spider in the Plate. It was taken in a garden in *April*.

N°. XII.

THIS Spider was black and white; the black marks on the upper ſide of the belly croſs it horizontally; it had eight eyes ſtanding as they are expreſſed in the Plate. This is one of the Spiders which catches his prey by jumping on it, and can move backwards and forwards, or ſideways at its pleaſure with great agility. It was taken in a garden about the middle of *April*.

N°. XIII.

N°. XIII.

THIS Spider was of a dark hair-colour, with a ſmall ſtroke of a lighter colour on the upper ſide of the belly, and ſtreak of light colour on the back, bordered on each ſide with black, it looks all over with a ſoft downy look: it had long feelers, and eight eyes ſtanding as they are expreſſed in the Plate. It was taken in a garden at *Hackney*, about the middle of *April*.

ANOTHER of the ſame kind was taken about the middle of *May*, with a large bag of eggs faſtned to its tail, the outſide of which was white, with a caſt of blew. There has been found ſeveral degrees in bigneſs of theſe Spiders, and the colours the ſame; ſo that they do not alter or change their colours as they grow bigger. An endeavour was made to take the egg from it; but ſhe was not willing to part with it, but ſtrove to hold it by clapping her legs about it a great many times: and when taken away, would run to it, and catch hold of it, endeavouring to pull it to her again.

N°. XIV.

THIS ſmall Spider was black on the back; the upper ſide of the belly had a black line running through the middle of it, with a border of white on each ſide of it, croſſed on each joint by a ſmall black line; the feelers were very ſmall. It had eight eyes ſtanding in a ſemicircular form, as they are expreſſed in the Plate. It was taken in a dry bank near *Iſlington*, on the fourteenth of *April*.

N°. XV.

THIS longiſh Spider hath a ſtripe of orange-colour on the middle of its back, and down the middle of the upper ſide of the belly, edged with a border of black; the out-edges of which are compoſed of ſmall black lines, which make a faint ſhade ending in white. Its legs

Plate IV.

Ja.s Smith Sculp.

legs were of a chesnut-colour; the feelers had thick knobs at the ends, ending in points. It had four eyes, standing as they are expressed in the Plate. It was taken in *Cain-Wood*, on the fourteenth of *April*, running in the dead grass and leaves.

N°. XVI.

THIS Spider was of a light brownish hair-colour, with a faint stripe of yellow on its back, and upper side of its belly; its feelers were long and slender. It had four eyes, standing, as is represented in the Plate by the dots over the head of the Spider. It was taken in *Cain-Wood*, on the fourteenth of *April*, running in the dead grass and leaves. This is a female.

N°. XVII.

THIS longish Spider was of a light hair-colour, the darkest part being on the upper side of the belly, and coming off in a very light shadow on the sides. It had a light streak on the top of the back; the feelers had large knobbed and pointed ends. It had four eyes, standing as is expressed over the Spider in the Plate. It was taken about the middle of *April* in *Cain-Wood*, running on the ground under some dead leaves and grass. This is a male.

N°. XVIII.

THE back of this Spider is of a dark hair-colour with a light streak in the middle; the upper side of the belly light hair-colour, the legs of a reddish brown, the feelers long and slender, and of the same colour of the legs. It was taken the fourteenth of *April*, runinng on the ground in *Cain-Wood*.

N°. XIX.

N°. XIX.

THIS ſmall Spider was all over black, the feelers were knobbed at the ends. It had ſix eyes, ſtanding as they are expreſſed in the Plate. They are found running about in great plenty, in the low wet grounds, about the middle of *April*.

N°. XX.

THIS Spider is almoſt white on the top of the back: the ſides of the back were black, it had a light mark all along the upper part of the belly even with that on the back, the legs and ſides of the belly of a dark colour; its feelers were pretty thick: it had ſix eyes placed as they are expreſſed in the Plate. Viewing the upper part of the belly of this Spider with a magnifying glaſs, it was hairy and finely ſpotted: It was found in *Cain-Wood*, running on the ground about the middle of *April*.

N°. XXI.

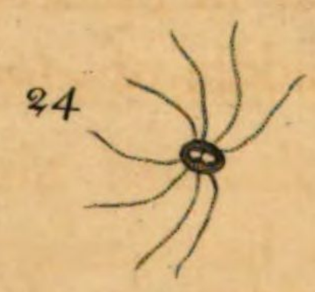
THIS Spider had a light mark along the top of the back, the ſides of the back black, going off into a faint ſhade of white, the tail was of a dark colour. Its feleers were ſlender, the legs finely marked, partly black and partly of ſad colour: it had ſix eyes ſtanding as is expeſſed in the Plate. The belly of this Spider was ſhorter than is uſually found in Spiders of this bigneſs. It was taken in *Cain-Wood*, about the middle of *April*.

N°. XXII.

THIS Spider was of a hair-colour; the ſides of it dark, marked with black; its belly riſes pretty high on the upper ſide; its feelers were ſlender: it had ſix eyes ſtanding as they are expreſſed in the Plate. It was taken in *Cain-Wood*, near *Hampſtead-Heath*, about, the middle of *April*.

N°. XXIII.

Plate V.



Ja! Smith Sc.

E. Albin Delin.

Plate VI.

Ja^s. Smith Sculp.

N°. XXIII.

THIS Spider was of a dark colour, having a pretty broad ſtreak of light hair-colour in the middle; and in the middle of that ſtreak a ſmall black line, the reſt of the back being black; the upper part of the belly had a ſmall hair-colour'd line, in ſhape of a longiſh ſquare. It had ſix eyes ſtanding as they are expreſſed in the Plate. Its feelers were long and ſlender: it was taken in *Cain-Wood* about the middle of *April*, in the dead leaves. One of theſe Spiders was taken at the beginning of *June* with its egg-bag under its belly, which was round and white.

N°. XXIV.

THIS ſmall long legged Spider was ſo finely marked that it was impoſſible to deſcribe it, either in words or colours; there being ſo fine a mixture of green, red, and black interchangeably put together in pretty ſhapes; the legs were alſo finely marked in the ſame manner; the eyes were ſo ſmall as not to be diſcerned. It was taken on the body of a tree in *Cain-Wood*, about the middle of *April*.

N°. XXV.

THE back of this Spider is of a cheſnut colour, and ſmall, the belly large, the upper part of which is of a yellow, white, and orange colour, very agreeably mixed in pretty ſhapes, the legs orange colour with dark ſpots. The feelers were ſlender; it had ſix eyes ſtanding as expreſſed in the Plate. It was taken on a tree in *Cain-Wood*, about the middle of *April*.

N°. XXVI.

THIS ſmall Spider was of a copper colour, the belly pretty large for the bigneſs of the Spider. It was found in the middle of a web, in *Cain-Wood*, about the ſixteenth of *April*. The eyes were ſo ſmall as their number could not be perceived.

N°. XXVII.

THIS Spider was of a longiſh ſhape, and of a yellowiſh green colour; its feelers were ſlender. It was taken about the middle of *April*, in *Cain-Wood*.

N°. XXVIII.

THIS Spider was of a blueiſh white, with a broad ſtreak of white on the middle of its back; bordered with black on each ſide, the upper ſide of the belly was finely marked with black, and ſpotted with ſmall black ſpots on the legs. It had ſmall globular knobs at the ends of its feelers.

N°. XXIX.

THIS Spider was of a hair-colour; it had a pretty large belly, the upper part of which, by the ſhadowing of the colours, appeared in a ſquare form; the two foremoſt legs were the longeſt; the feelers ſmall. It was taken about the middle of *April*, in *Cain-Wood*.

N°. XXX.

THIS Spider was of a light brown or cheſnut colour on the back; the upper ſide of the belly white ſhadowed towards the tail, with a deep ſhade of yellow, and a row of darker ſpots of the ſame colour on each ſide of the belly; its feelers ſmall; the two foremoſt legs were longer than the other. It was taken in *Cain-Wood*, about the middle of *April*.

N°. XXXI.

THIS is one of the moſt beautiful Spiders, if you look on it with a *Microſcope*, as is poſſible to be ſeen; there is ſuch a variety of marbling in pretty ſhapes of ſeveral colours, *viz.* black, cheſnut, rediſh, and white

mixt

Page 11.

Plate VII.

33

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I. Carwitham Sculp.

mixt all over the back, the belly, legs and feelers. It appears to the naked eye to be a greyiſh ſpeckled Spider being all over rough and hairy; the feelers have globular ends and are hairy. It had eight eyes placed as is expreſſed in the Plate, the two middlemoſt in the top being the largeſt. This Spider catches his prey by jumping on it, and is extremely nimble in its moving any way it pleaſes. It was taken in a garden at *Hackney*.

N°. XXXII.

THIS Spider was of a dark colour, there was a broad light ſtreak of hair-colour in the middle of the back; the upper ſide of the belly was as if it was marbled or watered, and all over very hairy. The feelers had pointed knobs at the ends, of a ſhining black, and below that another knob, which made them look as if they had been turned by a *Turner*; it had ſix ſmall eyes. This was a male Spider, and taken in the houſe at the latter end of *April*.

N°. XXXIII.

THIS Spider was of a black colour, with a ſmall ſtripe of lighter colour in the middle of the back, the upper part of the belly was lighter; the feelers had pointed knobs at the ends; it had four eyes ſtanding as is expreſſed in the Plate. It was taken at the latter end of *April*, near *Newington-Green*.

N°. XXXIV.

THIS Spider was of a hair-colour, the back was ſhort, the belly large, the upper ſide of which was prettily marked with light colour in the middle, and dark on the ſides: theſe marks where ſo regularly placed, as made it appear as if jointed on the back, it had a ſmall triangular ſpot in the middle, with a white line round it; and on the outſide of that

line it was dark; the two foremoſt legs were the longeſt: Its feelers were long and ſlender; it had ſix eyes, the two foremoſt were very ſmall, the two next pretty large: they were placed as are expreſſed in the Plate. It was taken amongſt ſome nettles near *Newington-Green*, at the end of *April*.

N°. XXXV.

THIS ſmall Spider is of a dark reddiſh or cheſnut colour, its back dark, the upper ſide of its belly was prettily marked with white and light cheſnut colour: It had globular bunches at the ends of the feelers, the legs were very long for the bigneſs of the Spider, the two foremoſt being the longeſt: It had four eyes ſtanding in a right line, in the fore-part of his head. This Spider was taken at the latter end of *April* in *Cain-Wood*.

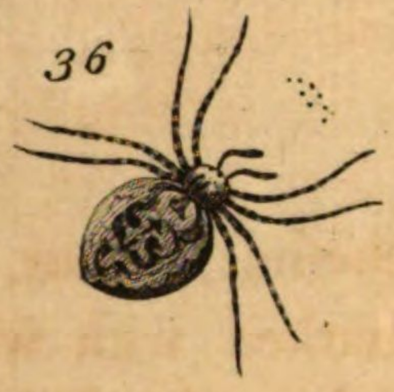
N°. XXXVI.

THIS Spider was of a dark aſh colour on the back, which was very ſmall, the upper ſide of the belly was black and white, regularly marked, repreſenting the ſhape of an *Oak-Leaf*, having a ſmall ſhade of cheſnut colour in it, the belly of this Spider was very large: its feelers ſmall and long; it had eight eyes placed as they are expreſſed in the Plate. It was taken by the *New-River*, at the latter end of *April*.

N°. XXXVII.

THIS Spider was, on the upper part of its back, of a ſhining black, the lower part next the belly of a colour inclining to red, the belly black, regularly marked with a lighter colour much reſembling a leaf; its legs were of a dark red or cheſnut colour, ſpotted with black; the feelers were ſlender: Its back was ſo ſhining, and its eyes ſo ſmall that they could not without great difficulty be diſcerned, they were eight in number

Plate VIII.



J.& Smith Sculp.

Plate IX .

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E. Albin Delin.

Ja.s Smith Sculp.

number placed as they are expreſſed in the Plate. The hind legs were not very long. It was taken in a *Cellar*, at the latter end of *April*.

N°. XXXVIII.

THIS Spider was all over of a hair-colour, with a light ſtreak in the middle of the back; in which was a ſmall black line, the upper part of its belly was regularly marked repreſenting joints, the legs were finely ſpotted with black; its feelers ſlender; It had eight eyes placed as they are expreſſed in the Plate. This Spider was taken in a *Cellar*, at the latter end of *April*. The thick web of this, and all the houſe Spiders may be made *Uſe* of, in the cure of all *intermittent* Fevers.

N°. XXXIX.

THE back of this Spider was of a dark copper colour, the whole belly perfectly black, the legs of a cheſnut colour finely ſpotted with black; its feelers were ſlender: The eyes were ſo ſmall and cloſe together as not rightly to be diſcerned as to their number and form. It was taken in a moiſt place under a ſhed at the latter end of *April*.

N°. XL.

THIS Spider was all over of a brown colour: the two foremoſt legs were the ſhorteſt, the two next the longeſt of all; the other two or third pair being ſhort, the hind legs long: This Spider was taken at *Hackney*, in the beginning of *May*. This Spider ſeems to be one of the long-legged kind.

N°. XLI.

THIS Spider is of a cheſnut or rediſh colour on the back, with a ſhade of green, the legs of the ſame colour, the whole belly was of a very fine green, on the upper part on each ſide was a row of dark coloured

coloured ſpots, and at the end of the tail a ſpot or tip of ſcarlet colour; its feelers ſmall and of a tranſparent green colour, it had ſix eyes placed as is expreſſed in the Plate, they were very plain to be ſeen, the body being almoſt tranſparent, and the eyes black. It was taken in a web on an *Elm-Tree*, eating a large black *Fly*, at the beginning of *May*, on *Epping-Foreſt*. There was one taken at the ſame time much ſmaller, but marked exactly like the great one.

N°. XLII.

THIS Spider was of the ſame colour, and marked exactly like the former, the feelers of the former being of a tranſparent green: This Spider's feelers are of a muddy green with globular knobs at the ends: It had ſix eyes ſtanding as they are expreſſed in the Plate. It was taken on the *Foreſt* at the ſame place and time with the former. Theſe two, I believe, to be male and female.

N°. XLIII.

THE back of this Spider was of a rediſh fleſh colour with a lightiſh ſpot of the ſame colour in the middle. In the upper ſide of its belly which was pretty large, was a large dark ſhade of the ſhape of a triangle, with a white line, reaching from the back to the tail end, which white line was cut through in ſeveral places by the dark ſhades; the feelers were ſlender; It had ſix eyes, placed as they are expreſſed in the Plate. It was taken in a garden of SIR *Richard Child*'s on *Epping-Foreſt*. in the beginning of *May*.

N°. XLIV.

THE back of this Spider was cheſnut colour, the belly almoſt black, with a caſt of copper colour, on the upper ſide of which was a white mark joining to the back, the legs were of a light hair-colour very tranſparent, and finely ſpotted with black; the feelers had ſmall globular knobs

Plate X.

J Smith Sculpt.

knobs at their ends: The eyes were ſo ſmall that their number and ſtanding could not be perceived. This Spider was taken at the beginning of *May*, in a garden at *Hackney*.

N°. XLV.

THIS Spider is of a hair-colour, on the back are two ſmall black lines, the upper ſide of the belly was of a fleſh colour finely marked with a broad mark of black and white; which mark is interrupted or broken off, about the middle; the belly is ſhadowed and intermixed with a mixture of pale red. Its feelers are long and ſlender: It had eight eyes ſtanding as they are expreſſed in the copper Plate. The young ones of theſe Spiders, which are no bigger than a rape ſeed, are marked exactly like the old ones; only ſomething darker, and of a copperiſh colour; which ſhows they do not alter their marks in their ſeveral degrees of bigneſs. Theſe Spiders were taken about the middle of *May*, by the *New-River* near *Iſlington*.

N°. XLVI.

THIS Spider is of a dark colour, the back lighter, with a dark line in the middle ſomething like a nine-pin, but more pointed at each end; on the upper ſide of the belly was a long dark coloured mark, with a border of light colour round it, the whole being ſpotted with dark ſpots; the feelers were ſlender: It had four eyes ſtanding as they are expreſſed in the copper Plate. This was taken near *Hornſey-Wood*, about the middle of *May*.

N°. XLVII.

THIS Spider was long and ſlender, being all over of a hair-colour, and finely ſpeckled with ſmall ſpecks of dark colour, the two foremoſt legs were very long, the two next ſomething ſhorter, the other pair next them were the ſhorteſt of all; the feelers were ſlender: It had eight

eyes

eyes placed as is expreſſed in the Plate. Theſe Spiders are very frequent in the *Hedges* about *Hornſey-Wood.* It was taken about the middle of *May*, at which time there were a great many ſmall ones running about, they not differing at all from the old ones in ſhape or colour. Theſe are called the *Greyhound* Spider. They are ſo ſwift in running that they ſeem to fly.

N°. XLVIII.

THIS Spider on the back is of a dark muddy yellow, inclining to a blackiſh colour, the belly blackiſh, with a white hoary look; the legs were yellow; the feelers yellow and ſlender: It had eight eyes placed as is expreſſed in the Plate. It was taken about the middle of *May*, near *Hornſey-Wood.* One of theſe Spiders was taken near *Hambleton* in *Buckingham-ſhire*, wraped up in a leaf of the winter green, with a great many young ones with it; the legs and back of this Spider were not ſo yellow as the former but more inclining to a cheſnut colour.

N°. XLIX.

THIS Spider's back is of a blackiſh colour, the upper part of its belly being finely marked with a rediſh, and blackiſh mixture, and on the upper part next the back was a white mark in the form of a Y. Its legs were of a pale colour finely ſpotted; the feelers had ſmall globular bunches at the ends. The eyes of this Spider could not be diſtinguiſhed.

N°. L.

THIS Spider was ſmall and flat, almoſt reſembling a tick. It was of an aſh colour, each ſide of the back having a little mixture of red; the feelers were ſlender, the eyes of it could not be ſeen.

N°. LI.

Plate XI.

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N°. LI.

THE back of this Spider was of an aſh-colour; all the other parts were of a rediſh colour; on the upper part of the belly was a row of white marks; from the back to the end of the tail, and between thoſe white marks, it was finely marbled with a variety of ſhades of red, in the ſhape of a triangle ſcolloped on each ſide, and a row of black ſpots on the outſide of the ſcolloped line; the legs were of a pale colour ſpotted with black; the feelers were ſlender and of an aſh-colour: It had eight eyes placed as is expreſſed in the Plate. It was taken in a garden at *Hackney*, about the middle of *May*.

N°. LII.

THIS Spider ſeemed to be of a lead colour, and of an oval ſhape; its back was very light; the upper end or head white, with a line of pale orange colour along the middle of the back; the upper part of the belly was very dark, almoſt black, going down the ſides in a lighter ſhade; the under ſide of the belly was of a ſad colour: It had eight eyes placed as they are expreſſed in the Plate; Its feelers were long and ſlender. It was taken near *Newington-Green*, about the latter end of *May*.

N°. LIII.

THIS Spider was all over of a cheſnut colour, with a ſtreak of light colour on the back; its belly was of an oval ſhape, the upper part of which was the darkeſt; the whole Spider had a velvet look: It had eight eyes placed as they are expreſſed in the copper plate; the feelers were ſlender. It was taken at the beginning of *June*, in *Cain-Wood*, and put into a box over night, and by the morning it had laid eggs and wrapped them up in a round white ball, holding it under its belly.

N°. LIV.

THIS Spider was of a ſlender ſhape and its legs long, conſidering its bigneſs; on the middle of its back was a whiteiſh line, on each ſide of that black, and below that a light hair-colour; the upper part of the belly was of a dark cheſnut colour; that part next the tail almoſt black; the other end, next the back, inclining to a dark red; the ſides of a whiteiſh colour, and below that black; the legs were of a cheſnut colour. Its feelers were knobbed and pointed at the ends, and on the inner ſide of thoſe knobs there was a large black ſhining ſpot looking like polliſhed jett. It had eight eyes placed as in the Plate, and was taken in *Cain-Wood*, in the beginning of *June*.

N°. LV.

THIS Spider was of an orange colour; it had on its back a ſtreak of light, and next to that on each ſide it had a dark ſhadow, and on the outſide of that ſhadow was a light line of the ſame colour of the firſt; the upper ſide of the belly had on each ſide a line or ſtreak of dark colour ending in a point at the tail; the feelers were ſlender: It had eight eyes placed as they are expreſſed in the Plate. It was taken in *Cain-Wood*, in the beignning of *June*.

N°. LVI.

THIS Spider was of a moſt beautiful green colour, all over its body, legs and feelers, which laſt were ſlender: It had eight eyes, placed as is expreſſed in the copper Plate. It was taken running on the ground in *Cain-Wood*, at the beginning of *June*; it was very nimble and quick-ſighted.

N°. LVII.

Plate XII.

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I Smith Sculpt

N°. LVII.

THIS Spider was of a dark colour, and ſhaped almoſt like a tick; the middle of its back was of a light hair-colour, round which was a pretty large mark of black; the upper ſide of the belly was of a dark hair-colour, finely marked with a light hair-colour; on the outſide of its belly was a fine ſhade of red; it legs finely ſpeckled; its feelers ſlender: It had eight eyes placed as they are expreſſed in the copper Plate. It was taken in a web in *Cain-Wood*, at the beginning of *June*.

N°. LVIII.

THIS Spider was of a yellowiſh colour, and ſhaped like a tick; it had a black line on each ſide its back, the middle of it being of a pale yellow; the under ſide of the belly was of the ſame colour, with ſmall ſtreaks of a darker colour. This was taken in *Cain-Wood*, at the beginning of *June*, where a very ſmall one was taken at the ſame time, exactly marked like the great one.

N°. LIX.

THIS Spider was of a whiteiſh sky-colour, with a black mark on each ſide the back, and upper part of the belly; the under ſide of a blueiſh white; the legs were blueiſh, and finely ſpeckled with black. Its feelers were ſmall: The number and ſtanding of the eyes could not be diſtinguiſhed, they were ſo ſmall and cloſe together. It was taken in *Cain-Wood*, at the beginning of *June*.

N°. LX.

THIS Spider was of a dark hair-colour, having a lighter ſtripe of the ſame colour, in the middle of the back; the upper ſide of the belly was ſpotted with black; the whole underſide was of a dark hair-colour

without ſpots; the legs were of a light-hair colour, looking tranſparent with a few black ſpecks here and there on them. Its feelers were ſlender. It had eight eyes placed as in the Plate. This Spider was taken from an *Ichneumon Fly*, in *Cain-Wood*, in the beginning of *June*.

N°. LXI.

THIS Spider was of a hair-colour; its back very dark; the belly light in the middle and clouded on the ſides with a dark colour; the whole under ſide of the ſame of a dark colour; its legs blackiſh; the feelers ſlender. It had eight eyes ſtanding in a ſemicircular form, as is expreſſed in the copper Plate. This is one of the Spiders which catches his prey by jumping on it. It was taken in *Cain-Wood*, in the beginning of *June*.

N°. LXII.

THIS Spider is all black, excepting four white ſpecks on the upper ſide of the belly; the feelers were of a whiteiſh, or very pale yellow; the legs were of a dark yellow. It had eight eyes ſtanding in a ſemicircular form, as they are expreſſed in the copper Plate. This is another of the jumping Spiders, and was taken at the ſame time and place as N°. LXI.

N°. LXIII.

THE back of this Spider is dark in the middle with a whiteiſh line round it; its back is much broader and bigger than its belly; the upper ſide of the belly is of a light chefnut colour, with a darker colour round it; the whole underſide is blackiſh; its legs ſpeckled; the feelers ſlender. It had eight eyes placed in a ſemicircular form, as they are expreſſed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*, and is one of the jumping Spiders.

N°. LXIV.

Plate XIII.

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E. Alvin Delin.

Ja.s Smith Sculp.t

Plate XIV.

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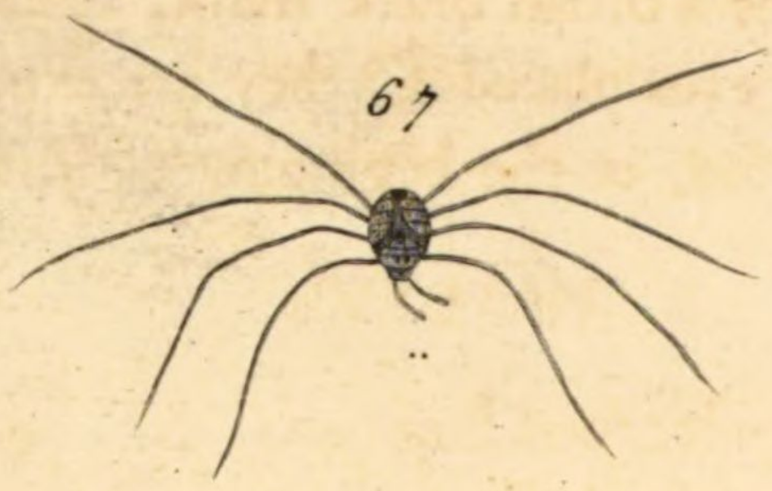

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J Smith Sculp

N°. LXIV.

THIS Spider's back and belly was of a curious ſhining black, with ſome few ſpots and marks of white, on the top and ſides of its belly; the legs were of a rediſh cheſnut colour; its feelers black and ſlender; the belly was large for the bigneſs of the Spider. It was ſo bright and ſhining that its eyes could not be diſcerned. It was taken in *Cain-Wood*, in the beginning of *June*.

N°. LXV.

THE back, legs, and feelers of this Spider were of a hair-colour; the upper ſide of its belly finely marked with cheſnut, orange and white; on the under ſide there was a broad black mark, reaching from the head to the tail. It had ſix eyes placed as they are expreſſed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*.

N°. LXVI.

THE back of this Spider was large and black, with two red marks, on the lower part next the belly, which was ſmall and pointed at the tail end, and finely marked with white; the legs were between a black and cheſnut colour; the feelers of a light hair-colour with globular pointed knobs at the ends; on the innermoſt ſide of which was a ſhining black ſpot. It had ſix eyes placed as is expreſſed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*.

N°. LXVII.

THIS long legged Spider was of a yellowiſh hair-colour, the back, belly, and head making one intire lump, having no diviſion between the back and belly, as in other Spiders; the feelers were ſlender; towards the

the head, on the upper ſide, was a riſing knob, on which were placed two pretty large eyes. This was taken in *Cain-Wood*, at the beginning of *June*.

N°. LXVIII.

THE back of this Spider hath a ſmall line of orange colour in the middle, and on each ſide of that a broad ſtripe of black; and on the outſide of the back a light hair-colour; the upper ſide of the belly was black, with marks of hair-colour down the middle, in the ſhape of hearts; the ſides of the belly whitiſh; next to that black, which come off into a faint ſhade of aſh colour; the whole underſide was of the ſame colour; the legs and feelers both of a hair-colour. It had eight eyes placed as inthe copper Plate, the uppermoſt of which, that ſtood in a row, were the ſmalleſt. It was taken running on the ground by a hedge ſide, near *Woolwich* in *Kent*, about the middle of *June*.

N°. LXIX.

THE back of this Spider was black, with three white marks or ſpecks on it, the upper part of the belly, black, with a ſemicircular line white, of on the upper part next the back, and two ſtripes of white on each ſide, pointing upwards towards the middle of the belly; the legs were hair-colour, ſpotted with a darker colour; the feelers ſlender. It had eight eyes placed as they are expreſſed in the copper Plate. It was taken in a garden at *Hackney*, in the beginning of *June*.

N°. LXX.

THIS Spider was all over of a brown colour; its back and belly were near of a bigneſs; the belly had an indented ſtripe of a lighter colour riſing in the middle, making its belly appear gibbous; its legs were ſomething long and finely ſpotted; its feelers were ſlender. This

Spider

Plate XV.

Spider was taken with a ſmall flatiſh ball of eggs, of a blueiſh colour, which it held under its belly. It was found near *Woolwich* in *Kent*, about the middle of *June*.

N° LXXI.

THE back of this Spider was of a dark red colour; the belly, which was pretty large for the bigneſs of the Spider, was marked with black, white, and orange coloured marks. It had a ball of eggs when it was taken, which was round, and of a pale blue colour. It was found about the middle of *June*, near *Charlton* in *Kent*.

N°. LXXII.

THIS Spider had, on the middle of the back, a large dark ſpot edged with a light colour, and on the outſide of that black; the upper ſide of the belly was prettily marked, with black and hair-colour; the legs were of a dark colour; its feelers had globular ends. This was taken near *Charlton* in *Kent*. The eyes were ſo ſmall that their number and ſtanding could not be diſtinguiſhed.

N°. LXXIII.

THE back of this Spider was of a red colour; the upper ſide of the belly was black, with a whiteiſh yellow mark along the middle, like a ſmall ſprig of the yew tree; the end of its tail was forked; its feelers were ſlender. It had eight eyes placed at they are deſcribed in the Plate. It was taken in a warren near *Woolwich* in *Kent*, about the middle of *June*, in a very thick web on the ground, making a large hole for its ingreſs and egreſs, where it lays concealed till the prey is entangled, and then coming forth it lays hold on it, and killing it carries it into its hole. Some of theſe Spiders are taken in *July*, much larger; but nothing differing in ſhape or colours.

N°. LXXIV.

N°. LXXIV.

THE back of this Spider is of a reddiſh colour, the upper ſide of its belly black, ſtriped with white like a ſprig of yew; its tail forked; the legs of a dark colour; as were alſo the feelers, which were knobbed and pointed at the ends: It had eight eyes ſtanding as they are expreſſed in the copper Plate. It was taken in a thick web about the middle of *June*: I take this to be the male to N°. LXXIII.

N°. LXXV.

THE back and belly, of this Spider both upper and under-ſide, were of a ſhining black, as if poliſhed, or varniſhed; and on the upper ſide of its belly it had two rows of dents, or hollow ſpecks ſet in a regular order; the legs and feelers were of a very dark red; the eyes could not be ſeen by reaſon of its ſhining-blackneſs; the tail was forked. It was taken about the middle of *June*, creeping on the ground, near *Charlton* in *Kent*.

N°. LXXVI.

THIS Spider's back and legs were of a dark rediſh hair-colour; the whole belly of a dark lead colour, rough and hairy, the tail forked and of a fleſh colour; its feelers ſlender. It had eight eyes placed as they are expreſſed in the Plate. It was taken near *Woolwich* in *Kent*, about the middle of *June*.

N°. LXXVII.

THIS Spider was all over of a hair-colour, finely marked and mottled with black; its legs long and ſmooth; its feelers long and ſlender. It had eight eyes placed as they are expreſſed, by the dots over the Spider,

in

Plate XVI.

J Smith Sculp

in the Plate. It was taken about the middle of *June*, upon a dry bank on *Putney-Heath*, where it ſpun a very thick web, and had made two holes which led into a large hole in the bank, in which it lay very ſtill, expecting its prey which, as ſoon as it is entangl'd, it would run out and catch up, and run into the hole with it.

N°. LXXVIII.

THE back of this Spider was of a fleſh colour mix'd with a caſt of green; the legs and feelers of a cheſnut colour, with a greeniſh caſt; the upper ſide of the belly was of a bright yellowiſh green in the middle, and a blueiſh green on the outſides. It had a beautiful red ſpot at the end of its tail: It had ſix eyes placed as is expreſſed by the dots over the Spider in the Plate. It was found in a thin web on the buſhes on *Putney-Heath*, about the middle of *June*.

N°. LXXIX.

THIS Spider was all over of a light yellowiſh green; on the upper ſide of the belly there were two rows of ſmall black ſpots; its feelers were ſlender; the legs long for the bigneſs of the Spider. It had ſix eyes placed as they are expreſſed in the Plate. After it was taken it ſhed its skin, but differed nothing from what it was before. This was taken about the middle of *June* on *Putney-Heath*.

N°. LXXX.

THIS Spider was all over of a buff colour, with a dark cheſnut coloured mark on each ſide the back and belly, and two ſpots of the ſame colour near the tail. The feelers were long and ſlender. It had eight eyes placed as is expreſſed in the Plate. It was taken on a furzs-buſh on *Putney-Heath* on the twenty firſt of *June*.

N°. LXXXI.

THIS Spider was white both on the upper and under ſide of its legs and feelers; it had a dark ſhade on each ſide its back. It had a ſmall ſhade of red on the head; on the upper ſide of the belly were two rows of dents or dimples, and two ſpecks of red near the back, and two larger on the ſide of the belly. It had eight eyes placed as they are expreſſed in the Plate. It was taken on the twenty eighth of *June*, in *Biſhop's-Wood* near *Hamſtead-Heath*. Two of theſe Spiders were taken in a *Wood* near *Henley* upon *Thames*, about the middle of *June*; the red ſpots on one of theſe being much larger than the ſpots on this Spider.

N°. LXXXII.

THE back of this Spider was of a rediſh caſt; the ſides of a dark colour; the upper ſide of its belly was of a dirty yellow, with a long ſquare mark in the middle; ending in a large dark ſpot next the tail, which was forked; the underſide of the belly was of the ſame colour, having two large ſpots thereon, as if gilded with fine gold. It had eight eyes, as they are expreſſed in the Plate. It was found ſpun up in the tops of green ſorrel, and with it a bag of eggs of a pale red colour, near *Luſham* in *Kent*, at the beginning of *July*.

N°. LXXXIII.

THE back of this Spider was of a fleſh colour, finely marked with black; the upper ſide of the belly is black, as prettily marked with white, and on the white fine ſpecks of black, as were alſo the ſides of the belly. Its legs were ſpotted with a dark colour; its feelers long and ſlender. It had eight eyes placed as is expreſſed in the Plate. It was taken in a very broad web, which was ſpread on the ground with a large hole for its retreat, on the eighth of *June*, near *Dulwich* in *Kent*.

N°. LXXXIV.

Plate XVII.

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Page 27

Plate XVIII.

87

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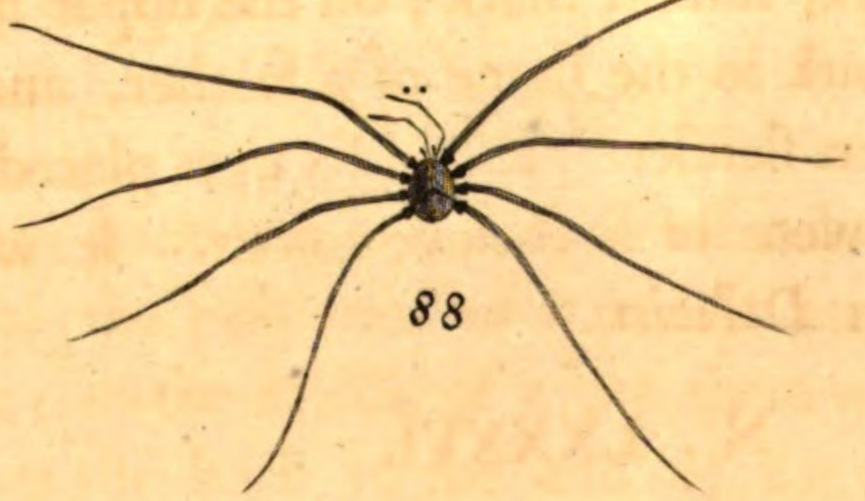

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Ja.s Smith Sculp.

N°. LXXXIV.

THIS Spider was all over of a hair-colour; the ſides of its back of a darker colour; the legs and ſides of its belly paler, and ſpeckled with the ſame dark colour. Its feelers were ſlender. It had eight eyes placed as they are expreſſed in the copper Plate. It was found in a web ſpun up in a *Haſel-Leaf*, with a ball of eggs of a yellow colour wrapped round with a white web, in a *Wood* beyond *Peckham*, in the beginning of *June*.

N°. LXXXV.

THIS Spider was all over of a hair-colour; the middle of its back light, and the ſides dark, almoſt black; on the upper ſide of the belly was a light coloured mark in the ſhape of a feather, and in it a longiſh black ſquare. Its feelers ſlender. It had ſix eyes placed as in the Plate; the ſides of the belly were of a cheſnut colour. It was taken at the beginning of *July* near *Dulwich*.

N°. LXXXVI.

THIS Spider was of a light aſh colour, with a white line in the middle of its back, and a whitiſh mark in the middle of the upperſide of its belly; the ſides of the belly white; its legs hairy; the feelers long and ſlender. It had eight eyes placed as they are expreſſed in the Plate. It was taken in the beginning of *July*, and with it a ball of eggs, which it held faſt with its legs; which ball, when broken, was found full of young Spiders all black.

N°. LXXXVII.

THIS Spider was of a light hair-colour, ſtreaked and ſpeckled with black; on the upperſide of the belly there were two rows of marks

ſpotted with black and white; the legs were long, and finely ſpotted; the feelers ſlender. It had eight eyes ſtanding as they are expreſſed over the head of the Spider in the Plate. At the end of its tail there were little ſhort things like feathers ſtanding up, which it opened and ſhut like a fan at its pleaſure. It was taken in the middle of *July*, in a *Chamber-Window*, at the *Greyhound* Inn at *Maiden-Head*.

N°. LXXXVIII.

THIS is one of the long legged Spiders, of a dark hair-colour; its body was ſmall and ſomething flatter than is uſual in theſe ſorts of Spiders; its legs and feelers were long. It had but two eyes ſtanding as they are expreſſed in the copper Plate. It was taken near *Peckham*, in the beginning of *July*.

N°. LXXXIX.

THIS Spider's back was of a darkiſh aſh colour, with a caſt of red; the upper ſide of the belly was of a rediſh hair-colour, with a large clouded triangle; in the middle of which there were white marks, regularly placed from the back to the end of the tail. The legs of this Spider were hairy and finely ſpotted, and intermixed with ſome briſtles; the feelers ſlender and hairy; as was alſo the whole Spider. It had eight eyes ſtanding as they are expreſſed in the copper Plate.

N°. XC.

THE back and legs of this Spider were of a dark green, the belly of a fine graſs green; on the upperſide of which there was a pretty large mark of dark green, and round the mark of dark green, a yellowiſh green. Its feelers were ſlender. It had eight eyes ſtanding as they are expreſſed in the Plate. It was taken upon an *Oak-Tree* in *Cain-Wood*, at the latter end of *July*.

N°. XCI.

Plate XIX .

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N°. XCI.

THE back and legs of this Spider looked tranſparent, like clear horn, excepting the ſpots, which were red and black, which made them look like Torotiſe-ſhell, the upper ſide of the belly was yellow, except a very large mark on that part next the tail, and about that two very ſmall black ſpecks. It had eight eyes, ſtanding as they are placed in the copper Plate; the feelers were ſlender. It was taken in a *Leaf* cloſed together, near to a web which it had made. I took one of theſe on an *Oak*, in *Cain-Wood*, at the beginning of *September*.

N°. XCII.

THE back and legs of this Spider were of a hair-colour; the feelers, were ſlender and of the ſame colour; on the upper ſide of the belly was a large indented mark of white incompaſſed with a deep ſcarlet colour; the ſides of the belly yellow. It had ſix eyes placed as in the copper Plate. It was found in *Cain-Wood*, at the end of *July*, incloſed in an *Oak-Leaf*, with a web in which was a ball of eggs of a pale blueiſh colour.

N°. XCIII.

THE middle of the back of this Spider was dark, with a light colour round it; the upper ſide of the belly dark, with a light coloured mark, in the form of a croſs; and below that, next the tail, there were ſmall ſtreaks or lines of a light colour quite croſs the lower part of the belly; the under ſide of the belly light and finely ſpeckled with dark colour: Its feelers ſlender. It had eight eyes ſtanding as they are expreſſed over the Spider in the Plate. It was taken in *Cain-Wood*, at the latter end of *July*.

N°. XCIV.

N°. XCIV.

THE back, belly, legs, and feelers of this Spider were of a dark chesnut colour, except some fine light coloured spots on the upper side of the belly; the two lowermost of which were the biggest. It was taken in *Cain-Wood*, folded up in a *Leaf*, and with it a ball of eggs, at the latter end of *July*.

N°. XCV.

THE back and legs of this Spider were of a dark green; the belly of a light-green with a dark line on the upper side of it: This Spider was slender; the feelers pretty long. It had eight eyes standing as they are placed in the copper Plate. It was taken in *Cain-Wood*, at the latter end of *July*.

N°. XCVI.

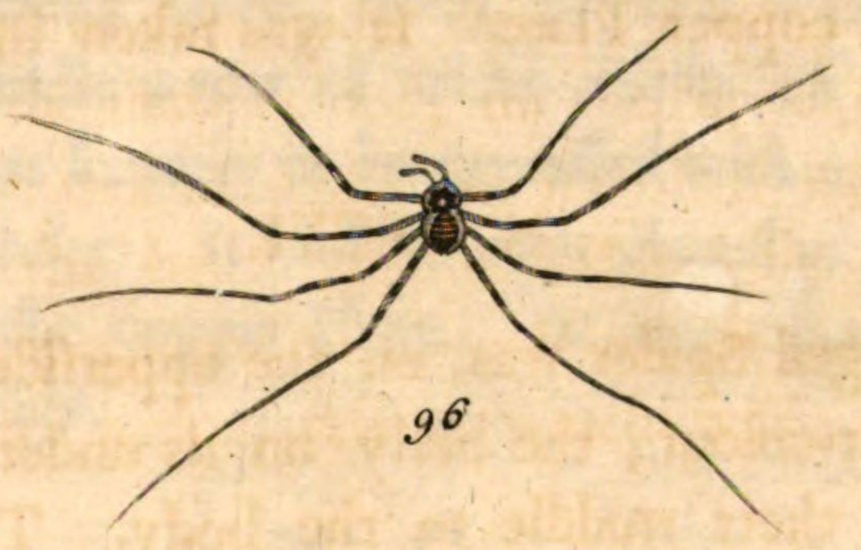
THIS long legged Spider was, on the upperside of its body, black; the sides of a hair-colour; the belly on its under side yellowish; the legs spotted from their middle to the body. The feelers were long and slender and of a light hair-colour. This Spider was taken in *Cain-Wood*, at the latter end of *July*.

N°. XCVII.

THIS Spider's back and legs were of a hair-colour, the belly whitish, speckled and veined with black so curiously that it is impossible to describe it; the feelers were long and slender. It had six eyes standing as they are placed in the Plate. It was taken in the middle of a web at the latter end of *July*, in *Cain-Wood*, it was kept in a box two or three days, in which time it made a ball of eggs very round and white.

N°. XCVIII.

Plate XX.



I. Carwitham Sculp.

N°. XCVIII.

THE back and legs of this Spider were of a dark colour; the upper ſide of the belly white, and in the middle a dark mark, ſomething like a ſpleenwort leaf. The feelers had ſhining globular knobs at the ends. It had ſix eyes ſtanding as they were placed over the head of the Spider in the Plate: Two of its eyes were placed ſo near together that they ſeemed but one. This was taken in *Cain-Wood*, in the middle of its web, at the latter end of *June*.

N°. XCIX.

THE back and legs of this Spider were of a dark hair-colour; the upperſide of its belly white, finely marked with red and hair-colour, and in the middle a row of white marks, of a longiſh ſquare faſhion, but ſo ſmall as ſcarcely to be expreſſed with a pencil. Its feelers were long and ſlender. It had ſix eyes placed as they are expreſſed in the drawing in the copper Plate.. It was taken in *Cain-Wood*, at the latter end of *July*.

N°. C.

THIS Spider was all black, with ſome white marks on the upper ſide of its belly; it had globular bunches at the ends of its feelers. It was found amongſt ſome nettles in the *Fields* near *Hammerſmith*, at the latter end of *July*.

N° CI.

THIS Spider was all black, both back, belly, legs, and feelers, except ſome very ſmall white marks on the upperſide of its belly; the feelers were ſlender; the eyes were ſo ſmall as not to be diſtinguiſhed

It.

It was taken in a *Field*, near *Rotherhith*, about the end of *Auguſt* folded up in the *Leaf* of a *nettle* with a ball of eggs of a blueiſh colour. This is the female to N°. C.

N°. CII.

THE back of this Spider was black in the middle, and of a dark red or cheſnut colour on the ſides: The upper ſide of the belly was of a light aſh colour with a black mark round the edge, and in the middle it had ſix black ſpecks; the two uppermoſt next the back were the ſmalleſt, the under ſide of the belly was of a light aſh colour, with a ſtreak of black in the middle; the legs were ſpotted; the feelers ſlender. Its eyes could not be perceived, by reaſon of the ſhining of the upper part of its back, next the head. It was taken in a *Garden*, at *Hackney*, about the latter end of *Auguſt*.

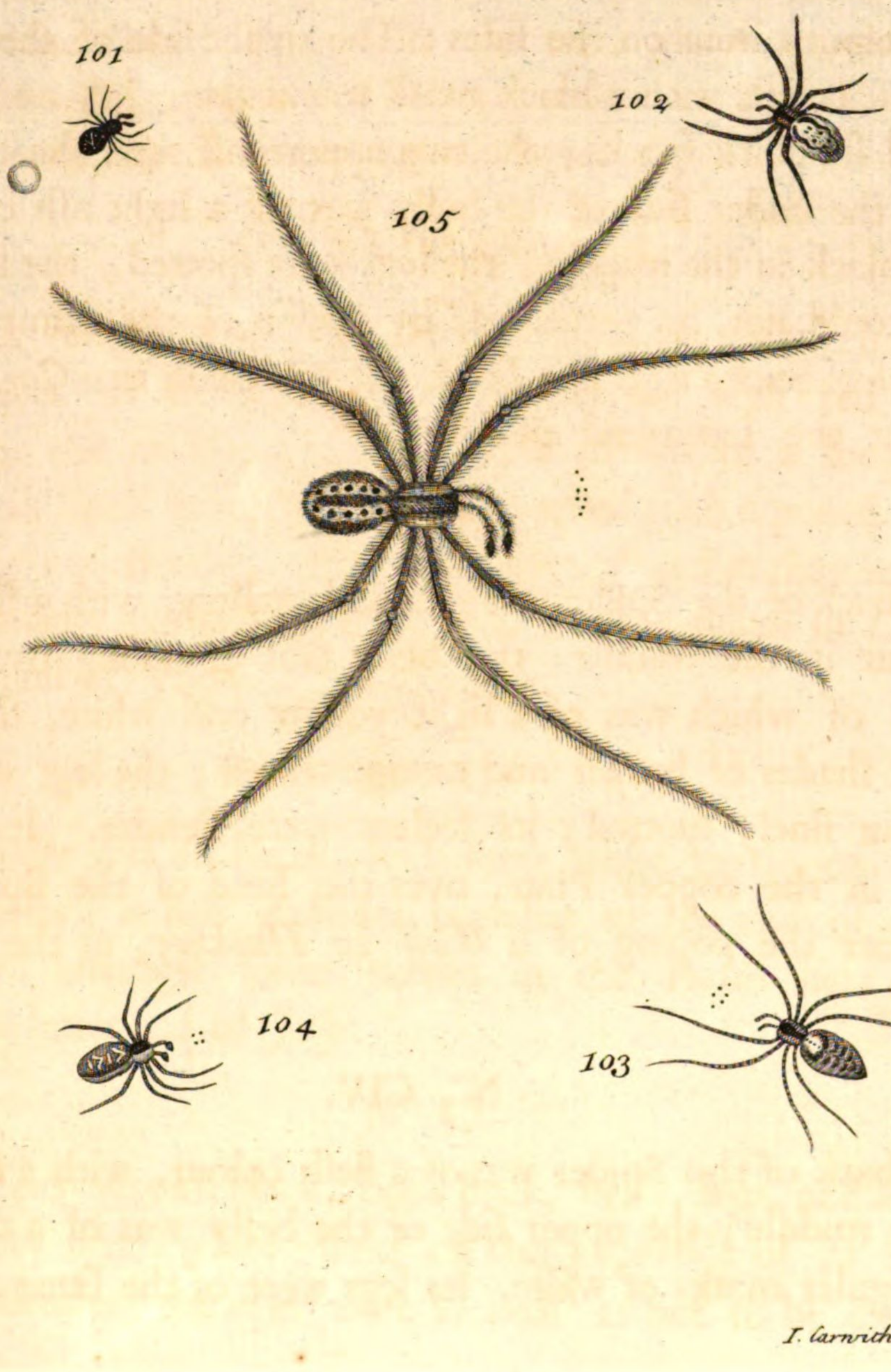
N°. CIII.

THE back of this Spider was of a dark yellow, with a ſhade of cheſnut colour in the middle; the belly was of a long oval ſhape, the upperſide of which was of a light yellow and white, finely marked with dark ſhades of brown and orange colour; the legs were of a dark colour, but finely ſpotted; its feelers were ſlender. It had ſix eyes placed as in the copper Plate, over the head of the Spider. It was taken under the coping of a *Wall* at *Hackney*, at the latter end of *September*.

N°. CIV.

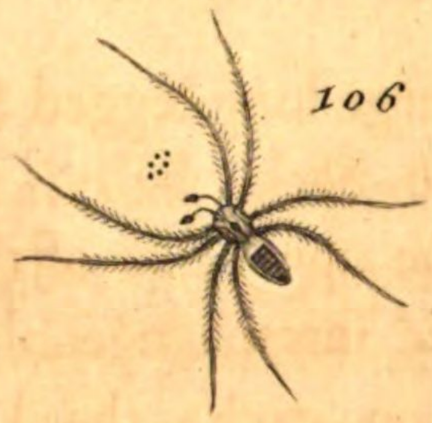
THE back of this Spider was of a fleſh colour, with a ſhade of dark red in the middle; the upper ſide of the belly was of a rediſh colour, with triangular marks of white. Its legs were of the ſame colour of the

middle



I. Carwitham Sculp.

Plate XXII.



middle of the back; its feelers lighter, with globular bunches at the ends, ending in a point. It had four eyes ſtanding as they are expreſſed in the Plate.

N°. CV.

THIS large long legged Spider was of a hair-colour, and very hairy all over the back, belly, legs, and feelers; its back is the darkeſt part; on the upper ſide of the belly were two rows of black and light ſpots, placed interchangeably one after the other. The feelers have two knobs on each; the laſt ending in a point. It had eight eyes ſtanding as they are expreſſed in the copper Plate. It was taken under the coping of a *Garden-Wall*, at *Newington*, about the middle of *September*.

N°. CVI.

THIS Spider was of a yellowiſh hair-colour; in the middle of its back was a ſtreak of black, in the middle of which was a ſquare; the belly, which was very ſlender towards the tail, on its upper ſide was marked croſs-wiſe with a dark colour and lines of black; the legs were of a yellowiſh hair-colour, and full of black briſtles, the foremoſt of which were very long for the bigneſs of the Spider; the feelers had globular knobs at their ends. It had ſix eyes placed as they are expreſſed in the Plate, and was taken by the *New-River* near *Iſlington*, about the middle of *September*.

N°. CVII.

THE middle of the back of this Spider was black; the ſides red; the belly was of an aſh colour, the upper part of which was prettily marked with a blackiſh colour, and the ſides of the belly finely ſpeckled

with the ſame. Its legs were ſpotted; the feelers ſlender. It had ſix eyes ſtanding as they are expreſſed in the copper Plate. It was taken under the coping of a *Garden-Wall*, at *Newington*, about the middle of *September*.

N°. CVIII.

THE back of this Spider was of a darkiſh red, or cheſnut colour, ſtriped with black, the middle being the lighteſt; the upper and under ſide of the belly were of a hair-colour finely marked and ſpeckled with a darker colour; the legs and feelers were of a dark cheſnut colour; the feelers hairy. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Garden* the twenty ſeventh of *Auguſt*.

N°. CIX.

THE back of this Spider is yellowiſh, and the ſides of it black; the upper ſide of the belly was of a hair-colour, which being viewed by a magnifying glaſs, it was ſo finely clowded with ſmall ſpecks as not to be deſcribed; the legs were ſpotted; the feelers ſlender. It had ſix eyes ſtanding as they are expreſſed in the copper Plate. It was taken under the coping of a wall, at *Newington*, about the middle of *September*.

N°. CX.

THE back of this Spider was blackiſh in the middle, and rediſh on the ſides; the belly was of a dark cheſnut colour, in the middle of which was a row of white ſpots; the feelers were ſlender, the legs ſpotted. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Garden* at *Hackney*, about the middle of *September*.

N°. CXI.

Plate XXIII.

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I. Carnwitham Sculp.

N°. CXI.

THE back of this Spider was of a dark rediſh aſh colour, with ſmall lines of black; the belly of a dark rediſh cheſnut colour, with ſeveral clouds of a darker colour, ſet in a regular order, on the middle, and ſides, and between them ſeveral ſpots of light aſh colour. It had alſo a row of long and round ſpots, white in the middle, reaching from the back to the tail. Its legs were of a hair-clour, ſpotted and hairy; the feelers were long and hairy. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Garden* at *Hoxton*, about the middle of *Auguſt*, and kept in a box, and fed with flyes till the twenty ſeventh of *September*, in which time it neither altered in colour or bigneſs.

N°. CXII.

THE back of this Spider is of a lightiſh lead colour, with marks and ſpots of black; its legs and feelers were of a light hair-colour. This is one of the long legged kind, having no diviſion of back and belly, as in other Spiders. The legs were ſomething ſhorter, and the body larger than is commonly ſeen in this ſort of Spiders. It was taken under the coping of a *Wall* behind *Shore-Ditch-Church*, at the end of *September*.

N°. CXIII.

THE back of this Spider was of a dark hair-colour, the middle ſomething lighter; the belly of a yellowiſh hair-colour, finely ſpotted, and marked with a dark colour; the legs of a dark colour; as were alſo the feelers; the body, legs, and feelers were all over beſet with fine hairs. It had eight eyes ſtanding as they are placed in the copper Plate.

N°. CXIV.

THE back of this Spider was very dark; the upper ſide of the belly was of a dark ferruginous colour, ſpotted with black with a large dark ſcolloped mark, in which were twelve ſmall white ſpots. The legs were of the ſame colour, and ſpotted with black; the feelers dark and ſlender. It had ſix eyes ſtanding as they are placed over the head of the Spider in the copper Plate.

N°. CXV.

THE back and belly of this Spider were of a deep fleſh colour; the upper ſide of the belly was croſſed with ſeveral lines of a dark colour; the foremoſt legs were the longeſt; the two next pair ſomething ſhorter; the third pair the ſhorteſt of all. They were of a dark colour, and longer than is uſually found in Spiders of this bigneſs. The feelers had globular pointed ends. It had eight eyes ſtanding in two ſtreight rows, as they are expreſſed in the copper Plate.

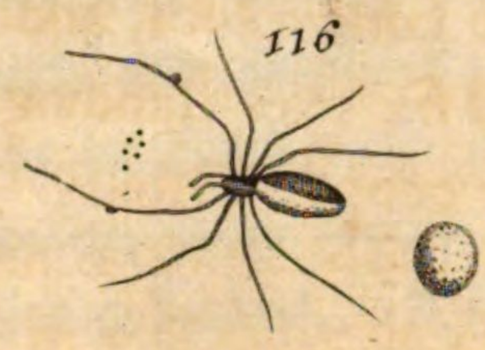
N°. CXVI.

THE back of this Spider was of a very dark colour in the middle, and a light aſh colour on the ſides; the upper part of the belly was of a ſcarlet colour, with a broad border of white on each ſide; the under ſide dark aſh ſpecked with black; the legs were of a light aſh colour, with a very remarkable protuberance on the outermoſt joint of the two foremoſt: The feelers were ſlender. It had ſix eyes ſtanding as they are placed over the Spider in the copper Plate.

N°. CXVII.

THE back and legs of this Spider were of a mixture of green and hair-colour; the upper ſide of the belly was white; the ſides and under part

Plate XXIV.



part of it light green ſpotted in the manner of ſtripes with black; the feelers ſlender, and of a faint green colour. It had ſix eyes ſtanding as they are placed over the head of the Spider, in the copper Plate.

N°. CXVIII.

THIS Spider was of a pale rediſh hair-colour; its back formed in a circular manner, from the middle of which the head riſes forward in a bunch; the upper ſide of the belly was marked with lines and ſtripes of a dark hair-colour; the legs and feelers were hairy, the latter having pointed knobs at the ends; its tail was forked. It had eight eyes ſtanding as they are placed, over the head of the Spider, in the copper Plate. I took one of theſe Spiders larger and ſomething darker, under the coping of *Hide-Park Wall*, on the twenty fourth of *Auguſt*.

N°. CXIX.

THIS Spider was all over of a pale green colour, excepting a black mark on each ſide the back, and two marks of the ſame colour on the middle of the upper ſide of the belly. It had ſomething of the reſemblance of the tick kind; it had globular knobs at the ends of its feelers. It was taken in a *Garden* at *Hackney*, on the twentieth of *April*.

N° CXX.

THE back of this Spider was of a dark muddy green colour; the upper ſide of its belly of a dark green, with ſeveral black marks; the outer corners of the belly next the back were knobbed, like ſome of the wood bugs. Its legs were green and ſpotted with black; the feelers ſlender. It had eight eyes ſtanding as they are expreſſed in the copper Plate. It was taken in a *Wood* near *Luſham* in *Kent*, the twenty third of *May*.

N°. CXXI.

N°. CXXI.

THIS Spider was of a light yellowiſh green all over the body, legs, and feelers, with a faint ſhade on each ſide its back, and a few ſpots of the ſame colour on the upper ſide of the belly; its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Wood* near *Luſham* in *Kent*.

N°. CXXII.

THE back of this Spider was of a pale orange colour; the upper ſide of the belly was marked very curiouſly with a light green, and hair-colour; the white part, looking like ſilver, made it appear very beautiful; the two fore legs were the longeſt; the next pair ſomething ſhorter; the third pair the ſhorteſt; the feelers were ſlender, and its body of a ſingular ſhape. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Hedge* beyond *Peckham*, on the twenty third of *May*.

N°. CXXIII.

THIS long legged Spider was of a dark hair-colour on the upper ſide, having a ſtreak of light colour in the middle of its back; the legs of a dark colour; its feelers ſlender; the under ſide of its body was of a yellowiſh white. It was taken under the coping of a *Wall* at the latter end of *Auguſt*.

N°. CXXIV.

THE back of this Spider was of a dark red colour; the belly black, finely ſpeckled with white; the legs blackiſh; the two foremoſt being the longeſt; the next pair ſomething ſhorter; the third pair the ſhorteſt of

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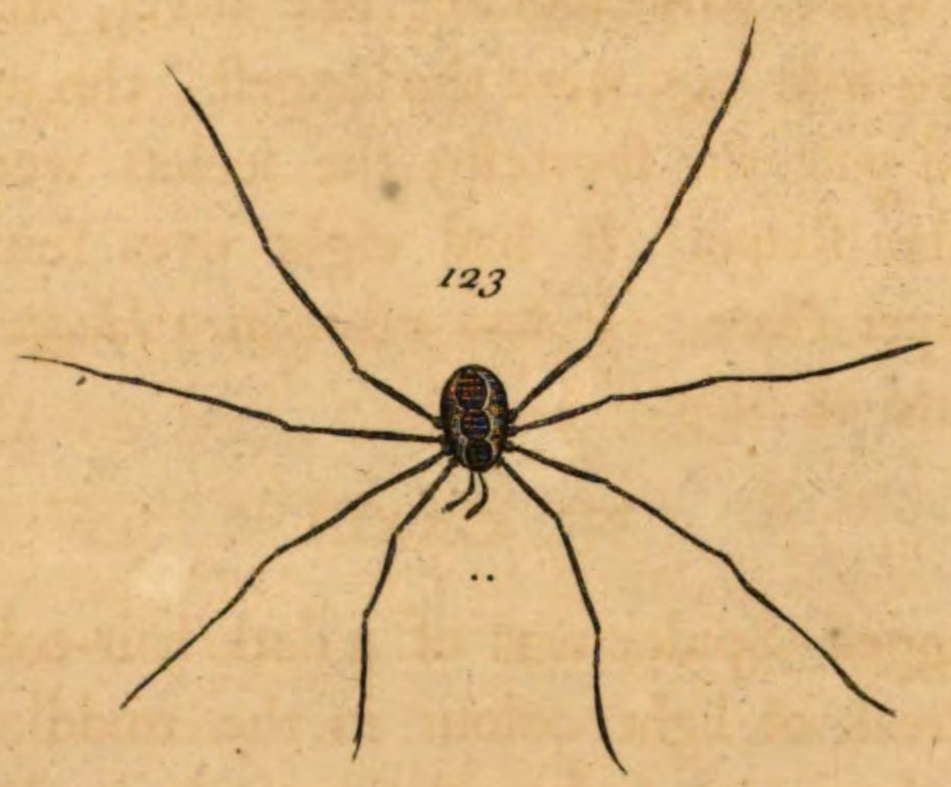
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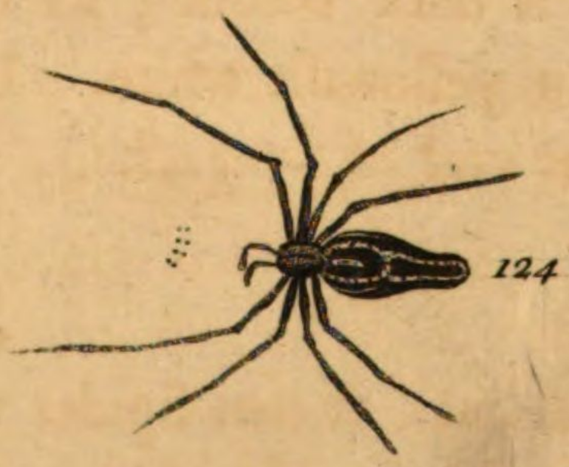
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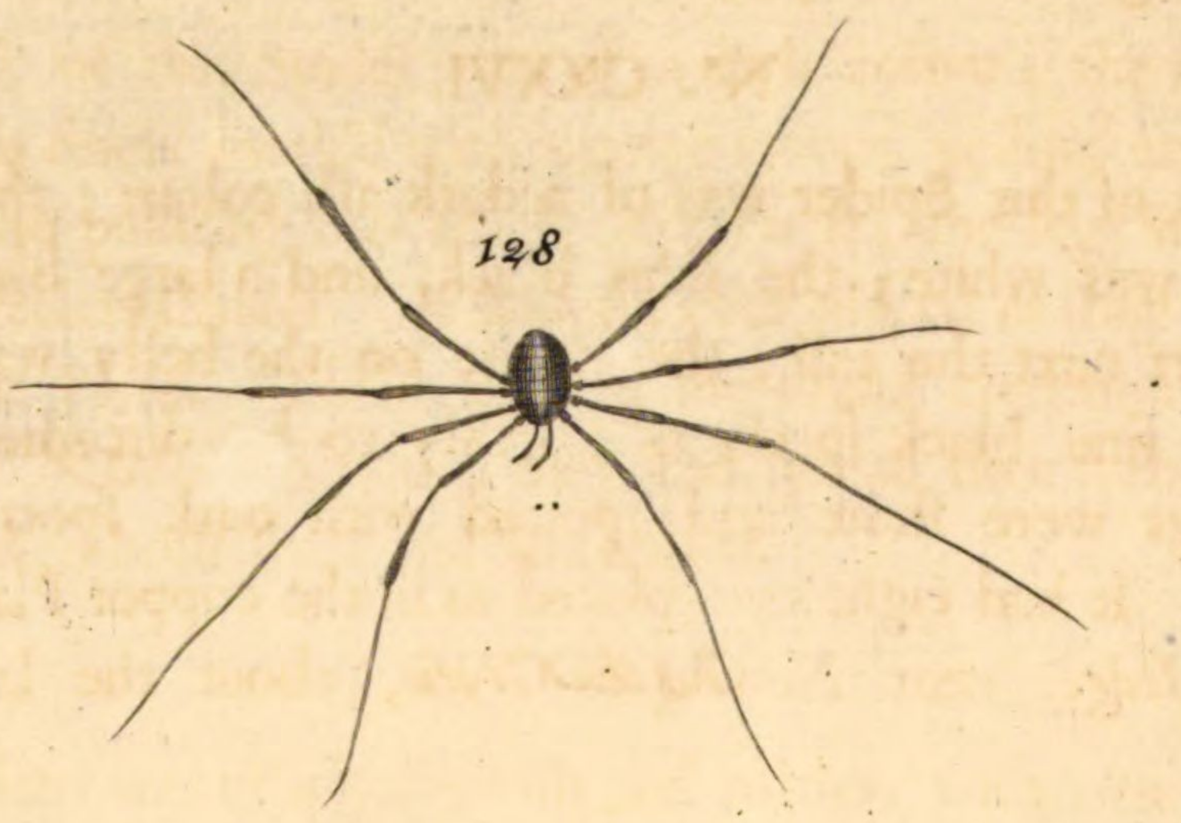
J. Basire sculp.

Plate XXVI.



J Smith Scul

of all; the body of a peculiar ſhape; the feelers ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Hedge* beyond *Peckham* on the twenty third of *May*.

N°. CXXV.

THE back of this Spider was of a hair-colour, with a mark of a dark ſhade in the middle; the upper ſide of the belly was yellow, in the lower part of which was a dark mark with two ſmall ſpots over it, and next the back a ſhade of the ſame colour; the legs were ſpotted; the feelers had globular bunches at the ends of a dark colour. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in a *Hedge* near *Hornſey*, on the twenty fourth of *Auguſt*.

N°. CXXVI.

THE back of this Spider was of a dark aſh colour; the upper ſide of the belly was white; the ſides black, and a large black mark on the lower part next the tail; the white on the belly was ſo finely ſpeckled with fine black ſpecks as ſcarcely to be diſcerned without a glaſs, the legs were ſhort and ſpotted with dark ſpots; its feelers were ſlender. It had eight eyes placed as in the copper Plate. It was taken in a *Hedge*, near *Newington-Green*, about the latter end of *Auguſt*.

N°. CXXVII.

THE back of this Spider was of a tranſparent green colour; the upper ſide of the belly was of a yellowiſh white, having towards the tail a black ſtreak, incompaſſed with black ſpots; the legs long, conſidering the bigneſs of the Spider, and tranſparent, excepting at the joints, which made them look like ſpots; its feelers were ſlender. It had eight

eyes

eyes ſtanding as they are placed in the copper Plate. This Spider was found wrapt up in a *Nettle-Leaf*, and with it a ball of eggs of a blue colour, on the ſixth of *September* near *Camberwell*.

N°. CXXVIII.

THIS long legged Spider was of a dark hair-colour on the upper ſide, having a ſtreak of light colour in the middle of its back; the legs of a dark colour; its feelers ſlender; the under ſide was of a yellowiſh white. It was taken under the coping of a *Wall*, at the latter end of *Auguſt*.

N°. CXXIX.

THE back of this Spider was of a dark colour; the upper ſide of the belly is ſo finely mark'd with orange colour, yellow and dark hair-colour, that no painting can truely expreſs it; the legs were dark and ſpotted; its feelers ſlender. It had ſix eyes placed as they are expreſſed in the copper Plate. Theſe Spiders are found common near *Putney* amongſt the *Nettles*, in which they had ſpread their webs; in which, webs were taken both flyes and butterflyes.

N°. CXXX.

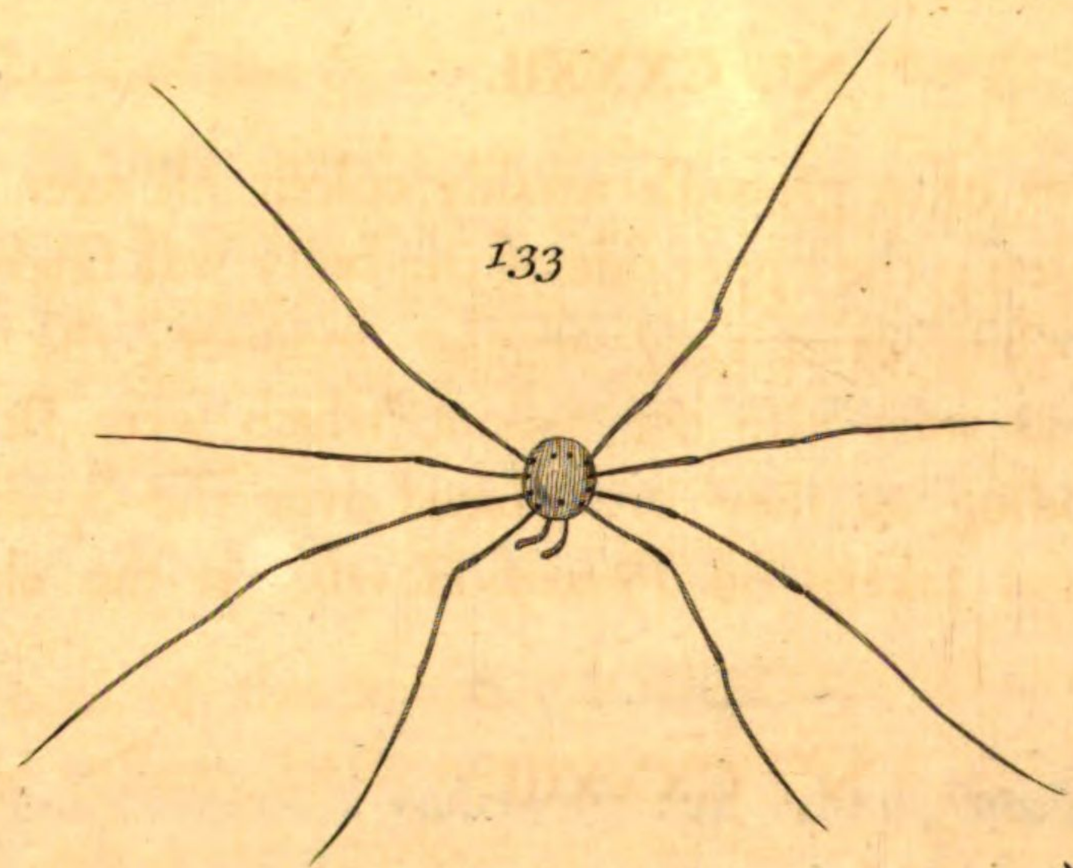
THIS Spider was of a yellowiſh red colour, with two broad ſtripes of black in the middle; the upper part of the belly, which was ſlender, was of a yellowiſh colour, with a large white ſpot next the back, marked with dark hair-colour and rediſh ſpots; its legs were of a dark red colour; the feelers were globular at the ends. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken amongſt the *Nettles* near *Putney-Common*, and ſeems to be the male to CXXIX. It was found the eleventh of *September*.

N°. CXXXI.

Plate XXVII.

132

131



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N°. CXXXI.

THE back of this Spider was of a dark hair-colour, and blackiſh in the middle; the belly was very large, the upper ſide was of a yellowiſh hair-colour, inclining to a fleſh colour, finely marked with white marks edged with a dark hair-colour; the legs were ſpotted with black; the feelers were ſlender and alſo ſpotted. It had eight eyes placed as they are expreſſed in the copper Plate. It was taken in a *Furz-Buſh*, on *Putney-Heath*, the eleventh of *September*. It had made itſelf a thick web about the bigneſs of the top of one's thumb, in which it lay, below which it had ſpread a thin web ſtanding edge-ways for catching its prey.

N°. CXXXII.

THIS Spider was of a greeniſh muddy colour all over the back, belly, legs, and feelers; the upper ſide of the belly was finely marked and ſpotted with white in a very regular manner; the legs were ſpotted and hairy; as were alſo the feelers, which were ſlender. It had eight eyes ſtanding as they are placed over the Spider in the copper Plate. It was taken, on *Putney-Heath*, on the eleventh of *September*.

N°. CXXXIII.

THIS Spider is one of the long legged kind. Its body was of an orange colour; in the upper part of the body was a black ſpot, in which ſtood the two eyes; in the lower part of the body next the tail were two black ſpots; the feelers were ſlender; the legs long, and of a blackiſh colour. It was taken, in *Cain-Wood*, in the beginning of *Auguſt*.

N°. CXXXIV.

THIS Spider was all over of an orange colour on the back, belly, legs and feelers; on the upper ſide of the belly were a row of white marks from the back to the tail; on each ſide of them was an indented ſpeck, which in the hollow parts looked like two black ſpots. The legs were ſpotted at the ends; the feelers long and ſlender. It had eight eyes ſtanding as they are expreſſed in the copper Plate. It was taken at *Maidſtone* in *Kent*, about the middle of *Auguſt*. The ſame kind of Spider was found in *Cain-Wood*.

N°. CXXXV.

THE back of this Spider was of a dark orange colour, as were alſo the belly, legs and feelers; the upper ſide of its belly was ſo finely mark'd with hair-colour and ſpeckled with white as ſcarſely to be imitated in painting; Its legs were ſpotted; the feelers ſlender. It had eight eyes placed as in the copper Plate. It was taken in *Cain-Wood*, on the twentieth of *September*.

N°. CXXXVI.

THE back of this Spider was of a dark aſh-colour; the upper ſide of its belly yellow, finely marked with green, and ſpotted with fleſh colour; the legs were tranſparent and ſpotted with black; thoſe parts of the legs next the body between the ſpots were red. Its feelers were ſlender, tranſparent and ſpotted. It had eight eyes placed as is expreſſed in the copper Plate. It was taken in a *Hedge*, near *Hornſey-Wood*, on the twentieth of *September*.

N°. CXXXVII.

THE back and legs of this Spider were clear and almoſt tranſparent, of a pale mixture of green and red; the upper ſide of the belly was green,

Plate XXVIII.

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139

I. Carnitham Sculp.

Plate XXIX.

141

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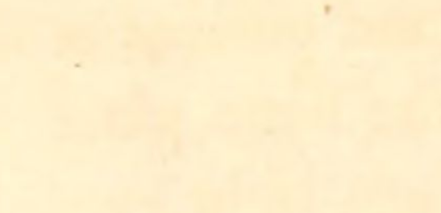


144

145

green, finely marked and ſpeckled with a rediſh colour; the feelers were ſlender. It had ſix eyes placed as in the copper Plate. It was taken, in *Cain-Wood*, the twentieth of *September*.

N°. CXXXVIII.

THIS Spider was all over of an aſh-colour finely ſpeckled with black. It was of a very flat ſhape, and extrorardinay nimble; its feelers were ſlender. It was taken, in *Cain-Wood*, on the twentieth of *September*.

N°. CXXXIX.

THIS Spider was all over of a hair-colour both back, belly, legs, and feelers; on the middle of its back were two black marks, and on the upper ſide of its belly there were four black ſpots: Its feelers were knobbed and pointed at the ends. It was taken on the ſixth of *May* near *Luſham* in *Kent*.

N°. CXL.

THIS Spider was all over its body, legs and feelers, of a dark copperiſh colour; the legs ſpotted with black; the feelers long and ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. This Spider was taken near *Peckham*, on the ſixth of *Auguſt*.

N°. CXLI.

THIS Spider was of a hair-colour with two black ſtreaks in the middle of its back; the upper ſide of its belly was finely ſtreaked with white; its feelers were knobbed and pointed at the ends with black. It was taken near *Luſham*, at the ſame place and time with N°. CXXXIX. They had each of them eight eyes, ſtanding as they are placed over the Spider in the copper Plate.

N°. CXLII.

THE back, legs and feelers of this Spider were of a bright green colour; the upper ſide of the belly was of a dark rediſh colour with a yellow border round it; the whole under ſide of a yellowiſh colour: Its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. This Spider was taken in *Cain-Wood* on the eleventh of *September*.

N°. CXLIII.

THE middle of the back of this Spider was of a dark red, inclining to a blackiſh colour with a ſtripe of yellow on each ſide; the upper ſide of the belly was of a velvet black, and in the middle were two rows of ſmall white ſpecks; on each ſide the belly it was white; its legs, feelers, and whole under ſide were of a dark cheſnut colour; the feelers were ſlender. It had eight eyes, placed as in the copper Plate. It was taken on the eighteenth of *April*.

N°. CXLIV.

THIS Spider was all over the back, upper ſide of the belly, legs and feelers, finely mottled with black and light aſh-colour; it had on the fore part of the head near the eyes, a rediſh mark; the under ſide of this Spider was of an aſh-colour with a caſt of green; its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken at *Woolwich* in *Kent*. There were two of the ſame kind of Spiders, which were very ſmall, taken at the ſame time and place.

N°. CXLV.

THIS Spider was of a dark hair-colour, on the upper and under ſide; on the upper ſide of the belly was a large white mark and another

Plate XXX.

I. Carwitham Sculp.

other on the middle of the back; the legs and feelers were alſo of a dark hair-colour. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken running on the ground, in *Greenwich-Park*, on the thirty firſt of *March*.

N°. CXLVI.

THE back and belly of this Spider were black, mixed with a rediſh purple caſt, and finely marked and ſpotted with white; the legs and feelers were of a hair-colour, ſpotted with the ſame dark colour of the body: Its feelers were ſlender. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in *Biſhops-Wood*, at the latter-end of *Auguſt*.

N°. CXLVII.

THIS Spider's back was of a dark hair-colour; the upper ſide of the belly of a beautiful green, finely marked with yellow; the legs were of a pale green, ſpotted with a dark hair-colour; as were alſo the feelers, which were ſlender. It had ſix eyes ſtanding as they are placed over the ſpider in the copper Plate. It was taken on a *Hazel-Tree*, at the beginning of *September*.

N°. CXLVIII.

THE back and legs of this Spider were of a rediſh colour; in the upper ſide of the belly was a long black mark, and round it white, and round the white a broad black ſcolloped ſtreak; the ſides below that were white; the feelers had pointed knobs at the ends. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in *Cain-Wood* on the fourth of *September*.

N°. CXLIX.

N°. CXLIX.

THIS Spider's back is of an orange colour with a ſpot of dark colour in the middle: The upper ſide of the belly towards the back was of an orange colour, and the other half towards the tail of a dark rediſh brown; the upper half ſpotted with yellow; the legs were yellow ſpotted with a dark hair-colour; the feelers ſlender and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was found on the thirtieth of *Auguſt*, amongſt ſome *Fern* on *Hampſtead-Heath*.

N°. CL.

THE back and belly of this Spider were of a rediſh colour; on the middle of the back was a large dark mark; the upper ſide of the belly is marked acroſs with ſhades of black, and in the middle a row of pale yellow ſpots, reaching from the back to the end of the tail; and on each ſide a row of dusky yellow ſpots; the legs and feelers were rediſh and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was found near *Eaſt-Barnet*.

N° CLI.

THE back of this Spider was of a yellowiſh hair-colour, with a ſtripe of dark brown in the middle, and a dark ſhade of the ſame colour on each ſide; the upper ſide of the belly was of the ſame colours, curiouſly and regularly mark'd with lines and ſpots of white; the legs were yellowiſh and very hairy, and ſpotted with dark brown: The feelers were alſo ſpotted. It had ſix eyes ſtanding as they are expreſſed in the copper Plate. It was found in a *Garden* at *Tottenham-Court* on the twenty ſeventh of *July*.

N°. CLII.

Plate XXXI.

N°. CLII.

THE back of this Spider was of a dark colour with a ſhade in the middle and on the ſides; the upper ſide of the belly is of a blueiſh colour, in the middle finely marked and ſpotted with white, with ſhades of black between the marks; the ſides of the belly of a light yellowiſh hair-colour, the legs of the ſame colour very hairy and ſpotted; the feelers ſpotted. It had ſix eyes ſtanding as thy are placed in the copper Plate. It was found in a *Garden* at *Acton*, about the middle of *July*.

N°. CLIII.

THE back, belly, legs and feelers of this Spider were of a light hair-colour, and finely marked with black, and ſpeckled and ſpotted with white, on the back and upper ſide of the belly; the legs were hairy and ſpotted with white and dark hair-colour; the feelers were ſlender and only ſpotted with dark colour. It had ſix eyes ſtanding as they are placed over the head of the ſpider in the Plate. It was taken in a *Garden* at *Lambeth* in *Surrey*, on the twenty ſeventh of *Auguſt*.

N°. CLIV.

THE back of this Spider was of a dark brown, with ſtripes of a darker ſhade in the middle; the upper ſide of the belly was of a rediſh or purple caſt, with ſtripes of dark brown acroſs it, and over all prettily marked and ſpeckled with white; the legs were of a dusky deep yellow, very hairy and ſpotted with black; the feelers were ſlender and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was found in a *Garden* in the beginning of *September*.

N°. CLV.

N°. CLV.

THE back, belly, legs and feelers of this Spider were of an orange tawny, the upper part of the belly having a broad ſtripe of a brown colour from the back to the tail ſpotted with white; the legs were hairy and ſpotted with a dark colour; the feelers were ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was found, at the latter end of *Auguſt*, in *Biſhops-Wood*.

N°. CLVI.

THE back, belly, legs and feelers of this Spider were of a dark yellowiſh hair-colour, without ſpots or marks, only the middle of the back excepted, which had two lines ending in a point next the belly; its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in the lower part of an unfiniſhed building at *May-Fair* near *Hide-Park* corner, at the beginning of *June*.

N°. CLVII.

THE back of this Spider was of a light yellowiſh brown with two or three ſhadows acroſs it; the upper ſide of the belly white, with a large mark of light brown, reaching from the middle to the lower end of the belly; the legs were party-coloured; the firſt and laſt joints of a hair-colour; the middle joints of a bright red, and ſpotted with a dark hair-colour at the ends of each joint: its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken in *Biſhops-Wood*, at the beginning of *September*.

N°. CLVIII.

Plate XXXII

J. Basire sculp

N°. CLVIII.

THIS Spider was all over of a dark brown colour on the back, belly, legs and feelers, being all over beſet with fine hair; its legs were long, and the feelers ſlender. It was taken in a Stable of the Right Honourable the Lord *Trevers*, at his ſeat at *Peckham*, about the middle of *Auguſt*, This is one of the female houſe Spiders, and of uſe when any of your poultrey or birds of the inſectiverous kind are cramped, or otherwiſe benumbed with cold; for if you then give them a ſmall Spider or two of the houſe kind, which they will willingly eat, it will help them.

N°. CLIX.

THE back and belly of this Spider were of a very dark brown, having on the back a circular mark of light hair-colour, with a caſt of dark red on the lower part; the upper ſide of the belly next the back had a ſmall ſtripe of light colour, and on the outſide of that dark brown bordred with red, and on the outſide of the red light hair-colour ending in a fork next the tail: Its legs were of a light hair-colour ſpotted with dark brown; the feelers were ſlender and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in a cellar of an old houſe, at the latter end of *Auguſt*.

N°. CLX.

THE back and belly of this Spider were of a dark hair-colour; the back had a circular mark of dark brown, divided in the middle by a line of the ſame colour; the upper ſide of the belly had three rows of dark marks reaching from the back to the tail, which was forked;

the legs and feelers were yellow, hairy and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in an out-house, in the beginning of *June*.

N°. CLXI.

THE back, legs and feelers of this Spider were of a dark hair-colour; the upper ſide of the belly of a roſe colour with two large marks of black, in the uppermoſt of which were two ſmall lines of white, and under them two hollow ſpecks or dimples of the ſame colour, in the lower black mark was a croſs of white: Its feelers had globular bunches at their ends. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken by the ſide of a pond, in Sir *Robert Abdey's Park*, about the beginning of *June*.

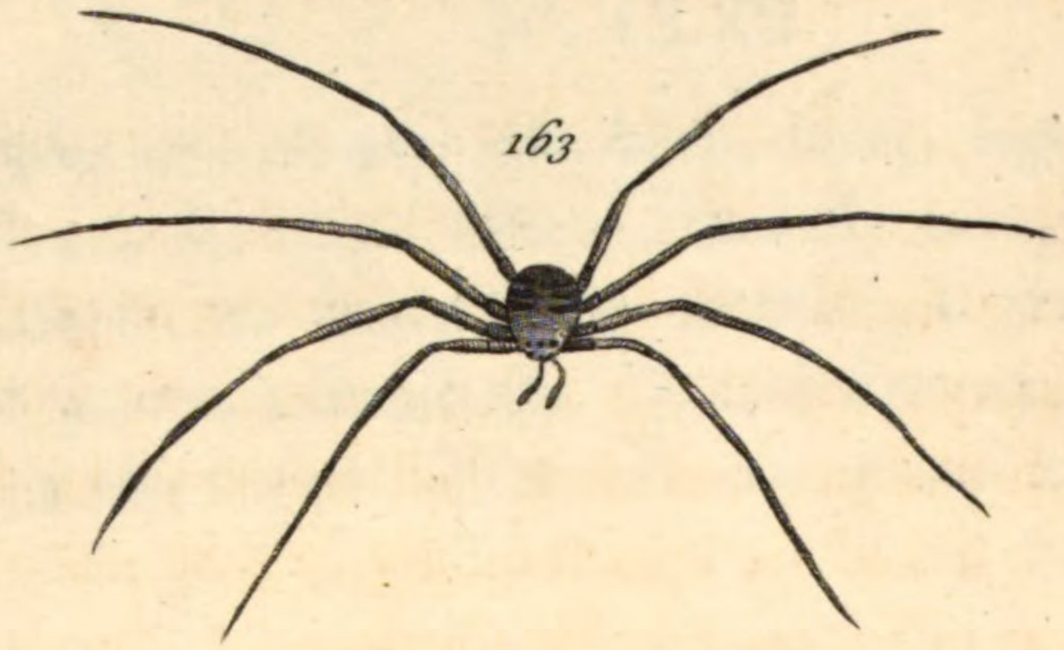
N°. CLXII.

THIS Spider was all over the back, belly, legs, and feelers, of a dark hair-colour; the upper ſide of the belly being marked with ſpots of dusky yellow; its feelers were ſlender. It was found in a web, which it had ſpun in a furz-buſh. It had four eyes ſtanding as they are placed in the copper Plate. It was found at the latter end of *Auguſt*.

N°. CLXIII.

THE back, belly, legs and feelers of this long legged Spider were of a dark hair-colour; the upper half of the body next the head yellowiſh, with ſeveral dark ſpots like eyes, but I could perceive but two. On the lower part of the body next the tail were four marks acroſs on each ſide; its feelers were ſlender. It was found amongſt ſome old timber, which laid on the ground, about the middle of *September*.

N°. CLXIV.



J. Basire sculp.

N°. CLXIV.

THE back of this Spider was of a dark hair-colour; the upper ſide of the belly ſomething lighter, marked with ſeveral regular marks and ſpots of pale yellow; the legs were of a dusky yellow, ſpotted with dark hair-colour: Its feelers were ſlender. It was taken in *Biſhops-Wood*, at the latter end of *September*.

N°. CLXV.

THIS Spider was all over of a beautiful green colour; on the upper ſide of its belly were lines of darker green reaching from the back to the end of the tail: Its feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was found running on the ground in *Biſhops-Wood*, at the latter end of *June*.

N°. CLXVI.

THE back of this Spider was of a yellowiſh hair-colour, in the middle of which was a ſmall dark line; the legs were of the ſame colour, ſpotted and hairy; the upper ſide of the belly was of a rediſh colour, marked with yellow, and dark hair-colour; the feelers were ſlender and ſpotted. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken on *Finchly-Common*, at the the beginning of *September*.

N°. CLXVII.

THE back of this Spider was of a pale green, with two marks of dark hair-colour; the upper ſide of the belly hair-colour, with a broad ſtripe of light green, reaching from the back to the end of the tail; the legs were of a dark hair colour; as were alſo the feelers, which

were ſlender. It had eight eyes ſtanding at they are placed in the copper Plate. It was found running on the ground, in *Enfield-Chace*, on the fourth of *Auguſt*.

N°. CLXVIII.

THE back of this Spider was of a hair-colour, marked with a ſpot and broad line of yellow; the upper ſide of the belly had a mark in the ſhape of a croſs of yellow colour, with a ſmall line of dark red in the upper part; on the outſide of the croſs it was black with a broad circle of yellow round it ſpotted with red; on the out ſide the circle it was of a hair-colour; the legs were of a light hair-colour ſpotted with black, having briſtles of the ſame colour on the joints; the feelers were ſlender. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in a web, in *Biſhops-Wood*, at the beginning of *September*.

N°. CLXIX.

THE back, belly, legs and feelers of this large Spider were of a yellowiſh hair-colour; on the back was a large dark mark; the upper ſide of the belly had eight black ſpots on it, and two black tips at the end of the tail; the firſt joints next the body were hairy and beſet with black briſtles; as were alſo the feelers; the next joints ſhort and roundiſh, and joined at each end by two ſtrong black nerves; the two next joints were joined by a ſingle nerve each. It had eight eyes ſtanding as they are placed in the copper Plate.

N°. CLXX.

THE back of this Spider was of a rediſh colour, with ſmall ſtripes of dark colour; the upper ſide of the belly red, with marks of white

and

Plate XXXIV

J. Basire sculp

Plate XXXV.

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E. Albin Delin.

Jas. Smith Sculp.

and dark red; the legs were of a deep dusky yellow, ſpotted with dark hair-colour; the feelers ſlender and ſpotted. It had ſix eyes ſtanding as they are placed over the Spider in the copper Plate. It was found in *Biſhops-Wood*, at the beginning of *September*.

N°. CLXXI.

THIS Spider was all over the back, belly, legs, and feelers of a light brown colour; its legs were hairy and longer than is uſually found in Spiders of this bigneſs; the feelers had globular bunches at the ends. It had ſix eyes ſtanding as they are placed in the copper Plate. It was found on the ground at the beginning of *September*.

N°. CLXXII.

THIS Spider was all over of a dark rediſh colour on the back, belly, legs and feelers; it had a ſmall white mark on the middle of the back, and on the upper ſide of the belly next the back was a large mark of white, and within that a ſquare mark of black, and two rows of white ſpots, ending in a point at the tail, and ſome white marks on each ſide the belly; the legs were hairy; the feelers ſlender. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken in a *Wood*, about the latter end of *Auguſt*.

N°. CLXXIII.

THIS large Spider was of a brown colour all over its back, belly, legs, and parts whereon the forceps were placed; the forceps were curiouſly poliſhed, and ſharp at the ends; the back had ſeveral marks of a dark colour on it: the tail was forked; the legs were incircled round each joint with a ſmall line of pale yellow. The whole Spider was beſet with a downy hair of a deep yellowiſh colour. This Spider

was

was brought from the *Cape* of good *Hope*. Theſe foreign large Spiders have ten legs beſides the forceps, all our engliſh Spiders having but eight. They are ſaid to ſpin a web ſo ſtrong between the branches of the trees as is able to intangle the humming-birds which they kill and devour. See *Marian* of the *Surinam Inſects*, Plate, 18. I take N°. CLXXIV to be the male Spider of N°. CLXXIII.

N°. CLXXIV.

THE back of this Spider was of a dark colour and light in the middle; the upper ſide of its belly dark, with marks of yellow and white; the legs of a light hair-colour, ſpotted with a dark colour; the feelers ſlender. It had ſix eyes ſtanding as they are placed in the copper Plate. It was taken on *Hampſtead-Heath*, in the latter end of *September*.

N° CLXXV.

THE back and upper ſide of the belly of this Spider were of a dark colour, inclining to a black, with a row of large marks made up of ſmall white ſpecks, and on each ſide a ſcolloped line of white; the legs were of a light hair-colour ſpotted with a dark colour; the feelers were ſlender. It had eight eyes ſtanding as they are placed in the copper Plate. It was taken on *Hampſtead-Heath*, on the twenty-ſeventh of *September*.

N°. CLXXVI.

THIS Spider's belly and head were of a light brown colour: it had on its back and upper ſide of its belly a flat, ſquare, cruſtaceous

ſubſtance

Page 54

Plate (XXXV.)

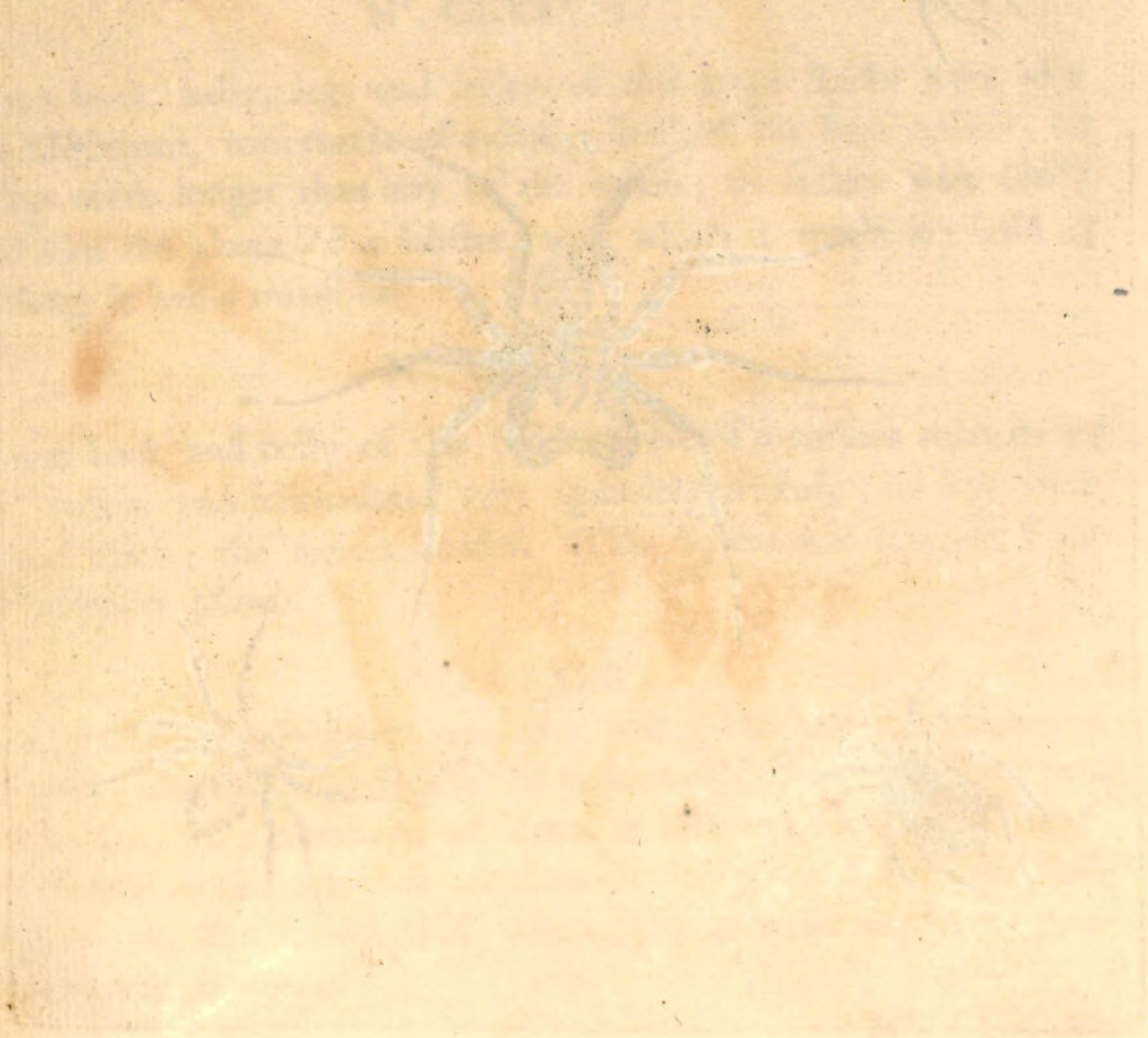


Plate XXXVI.

ſubſtance of yellow colour with a border of light brown. They lay whiteiſh eggs in yellow ſilken baggs of a globular form. *Camel MSS aranear. Philippenſium.*

N°. CLXXVII.

THIS Spider's, back, belly, legs and feelers were of a dusky brown and very hairy: Its feelers were ſlender. This Spider was drawn from one of the deſigns of Father *George Joſeph Camel*, a very curious obſerver of nature.

N°. CLXXVIII.

THE back, belly, legs and feelers of this large Spider were of a yellowiſh brown, with marks of a darker ſhade of the ſame colour; its fore legs were longer than any of the others; its feelers were oddly ſloped like the claws of a lobſter, with which it would lay hold of any thing it had a mind to.

N°. CLXXIX.

THE back and belly of this Spider were of a curious mixture of ſilver, yellow and hair-colour, very agreeably mixed. Its legs were long and black; the feelers ſlender. This Spider was brought from the *Philippian Iſlands.*

N°. CLXXX.

THIS odd ſhaped Spider was of a fine green colour, intermixed with gold; the bite of which is ſo venomous, if not remedy'd preſently by fire, or a decoction of dana, it kills both man and beaſt. They delight in the *Sambach Arabum* or *Syringa* and dwell in their twiſted leaves; See *Camel MSS.* who calls it *Araneus mortiferus ſmaragdino aureus Banayan.*

N°. CLXXXI.

N°. CLXXXI.

THIS Spider was found amongſt ſome books; it was of a brown colour. It had eight legs as other Spiders, but in the place of feelers it had two long things like the claws of a lobſter, and would uſe them as a crab or lobſter doth to pinch or lay hold of any thing. It would alſo run backwards or forwards as crabs do, and as well backwards as forwards. It ſeems rather to be one of the tick or bugg kind than that of a Spider.

THE eyes of Spiders (in ſome two, in ſome four, in ſome ſix, and in ſome eight) are placed in the forefront of their head, (which is round and without any neck) all diaphanous and tranſparent, like a locket of diamonds, &c: *Neither do I wonder why providence ſhould be ſo anomalous in this animal, more than in any other we know of; for firſt ſince they, wanting a neck, cannot move their head, it is requiſite that defect ſhould be ſupplied by the multiplicity of eyes. Secondly ſince they are to live by catching ſo nimble a prey as a fly is, they ought to ſee her every way, and to take her*, per ſaltum *(as they do) without any motion of the head to diſcover her; which motion would have ſcared away ſo timorous an inſect.* Power's Microſc. obſerv. pag. 11.

MICRO-

Plate XXXVII.

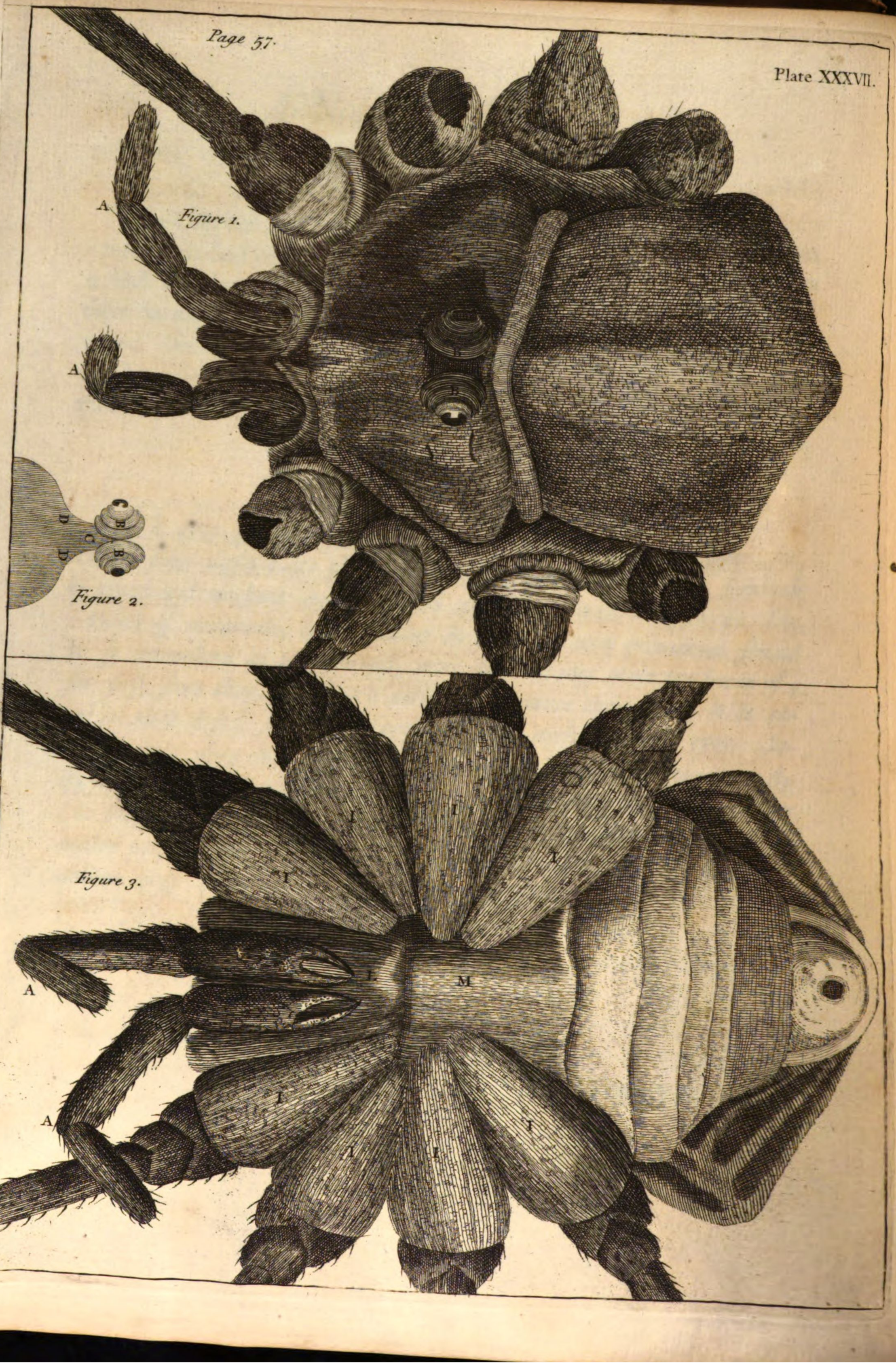


Figure 1.

Figure 2.

Figure 3.

Microſcopical Obſervations
ON THE
Carter Spider, and *Jumping Spider*;
By the late Dr. HOOKE, *F. R. S.*

THE carter, ſhepherd Spider, or long-legg'd Spider, has, for two particularities, very few ſimilar creatures that I have met with; the firſt which is diſcoverable only by the microſcope, and is in the firſt, and ſecond figures of Plate XXXVII. plainly deſcrib'd, is the curious contrivance of his eyes, of which (differing from moſt other Spiders) he has only two, and thoſe plac'd upon the top of a ſmall pillar or hillock, riſing out of the middle of the top of its back, or rather the crown of its head; for they were fix'd on the very top of this pillar (which is about the heighth of one of the tranſverſe diameters of the eye, and look'd on in another poſture, appear'd much of the ſhape B C D) the two eyes, B B, were placed back to back, with the tranſparent parts, or the pupils, looking towards either ſide, but ſomewhat more forward than backwards. C was the column or neck on which they ſtood, and D the crown of the head out of which the neck ſprung.

THESE eyes, to appearance, ſeem'd to be of the very ſame ſtructure with that of larger binocular creatures, ſeeming to have a very ſmooth and very protuberant *cornea*, and in the midſt of it to have a very black puple, incompaſſed about with a kind of grey iris, as ap-

pears by the Plate: whether it were able to move theſe eyes to and fro, I have not obſerv'd, but 'tis not very likely he ſhould, the pillar or neck C, ſeeming to be cover'd and ſtiffen'd with a cruſty ſhell; but nature, in all probability, has ſupply'd that defect, by making the *cornea* ſo very protuberant, and ſetting it ſo clear above the ſhadowing or obſtructing of its proſpect by the body, that 'tis likely each eye may perceive, though not ſee diſtinctly, almoſt a hemiſphere, whence having ſo ſmall and round a body plac'd upon ſuch long legs, it is quickly able ſo to wind, and turn it, as to ſee any thing diſtinct. This creature, as do all other Spiders I have yet examin'd, very much differs from moſt other inſects in the figure of its eyes; for I cannot, with my beſt microſcope, diſcover its eyes to be any ways knobb'd or pearl'd like thoſe of other inſects.

THE ſecond peculiarity which is obvious to the eye, is alſo very remarkable, and that is the prodigious length of its legs, in proportion to its ſmall round body, each leg of this I drew, being above ſixteen times the length of its whole body, and there are ſome which have them yet longer, and others that ſeem of the ſame kind, that have them a great deal ſhorter; the eight legs are each of them jointed, juſt like thoſe of a crab, but every of the parts are ſpun out prodigiouſly longer in proportion; each of theſe legs are terminated in a ſmall caſe or ſhell, ſhap'd almoſt like that of a muſcle-ſhell, as is evident in the third figure of the ſame Plate (that repreſents the appearance of the under part, or belly, of the creature) by the ſhape of the protuberant conical body IIII, *&c.* Theſe are, as 'twere, plac'd or faſten'd on to the protuberant body of the inſect, which is to be ſuppos'd very high at M, making a kind of blunt cone, whereof M is to be ſuppos'd the apex, about which greater cone of the body, the ſmaller cones of the legs are plac'd,

plac'd, each of them almoſt reaching to the top in ſo admirable a manner, as does not a little manifeſt the wiſdom of nature in the contrivance; for theſe long leavers (as I may ſo call them) of the legs, having not the advantage of a long end on the other ſide of the *hypomochlion*, or centers, on which part of the legs move, muſt neceſſarily require a vaſt ſtrength to move them, and keep the body balanc'd and ſuſpended, inſomuch, that if we ſhould ſuppoſe a man's body ſuſpended by ſuch a contrivance, an hundred and fifty times the ſtrength of a man would not keep the body from falling on the breaſt. To ſupply therefore each of theſe legs with its proper ſtrength, nature has allow'd to each a large cheſt or cell, in which is included a very large and ſtrong muſcle; and thereby this little animal is not only able to ſuſpend its body upon leſs than theſe eight, but to move it very ſwiftly over the tops of graſs and leaves.

NOR are theſe eight legs ſo prodigiouſly long, but the ninth, and tenth, which are the claws, K K, are as ſhort, and ſerve inſtead of a proboſcis, for thoſe ſeem'd very little longer than his mouth; each of them had three parts, but very ſhort, the joints K K, which repreſented the third, being longer than both the other. This creature, ſeems (which I have ſeveral times with pleaſure obſerv'd) to throw its body upon the prey, inſtead of its hands, not unlike a jumping Spider, which leaps like a cat at a mouſe. The whole fabrick was a very pretty one, and could I have diſſected it, I doubt not but I ſhould have found as many ſingularities within it as without; perhaps, for the moſt part, not unlike the parts of a crab, which this little creature does, in many things, very much reſemble, the curioſity of whoſe contrivance, I have in another place examin'd. I omit the deſcription of the horns, A A, of the mouth, L L, which ſeem'd like that of a crab; the

ſpeckledneſs of his ſhell, which proceeded from a kind of feathers or hairs, and the hairineſs of his legs, his large thorax and little belly, and the like, they being manifeſted by the Plate; and ſhall only take notice that the three parts of the body, namely, the head, and breaſt, and belly are in this creature ſtrangely confus'd, ſo that 'tis difficult to determin which is which, as they are alſo in a crab; and indeed, this ſeems to be nothing elſe, but an air-crab, being made more light and nimble, proportionable to the medium wherein it reſides; and as air ſeems to have but one thouſandth part of the body of water, ſo does this Spider ſeem not to be a thouſandth part of the bulk of a crab.

THE jumping Spider is a ſmall grey Spider, prettily beſpeck'd with black ſpots all over the body, which the microſcope diſcovers to be a kind of feathers like thoſe on butterflies wings, or the body of the white moth. Its gait is very nimble by fits, ſometimes running, and ſometimes leaping, like a graſhopper almoſt, then ſtanding ſtill, and ſetting itſelf on its hinder legs, it will very nimbly turn its body and look round itſelf every way: It had ſix very conſpicuous eyes, two looking directly forwards, plac'd juſt before; two other on either ſide of thoſe, looking forward and ſide-ways; and two other about the middle of the top of its back or head, which look backwards and ſidewards; tho theſe ſeem'd to be biggeſt. The ſurface of them all was very black, ſpherical, purely poliſh'd, reflecting a very clear and diſtinct image of all the ambient objects, ſuch as a window, a man's hand, a white paper, or the like. Some other properties of this Spider, obſerv'd by the moſt accompliſh'd Mr. *Evelyn*, in his travels in *Italy*, are moſt emphatically ſet forth in the hiſtory hereunto annexed, which he was pleas'd, upon my deſire, to ſend me in writing.

" Of all ſorts of inſects, there is none has afforded me more
" divertiſement than the *venatores*, which are a ſort of *lupi*, that have
" their dens in the rugged walls, and crevices of our houſes; a ſmall
" brown and delicately ſpoted kind of Spiders, whoſe hinder legs are
" longer than the reſt.

" Such I did frequently obſerve at *Rome*, which eſpying a fly at
" three or four yards diſtance, upon the balcony (where I ſtood)
" would not make directly to her, but crawl under the rail, till being
" arriv'd to the *antipodes*, it would ſteal up, ſeldom miſſing its aim;
" but if it chanced to want any thing of being perfectly oppoſite
" would, at firſt peep, immediately ſlide down again, till taking
" better notice, it would come the next time exactly upon the fly's
" back: but, if this happen'd not to be within a competent leap, then
" would this inſect move ſo ſoftly, as the very ſhadow of the gno-
" mon ſeem'd not to be more imperceptible, unleſs the fly mov'd;
" and then would the Spider move alſo in the ſame proportion, keep-
" ing that juſt time with her motion, as if the ſame ſoul had animated
" both thoſe little bodies; and whether it were forwards, backwards,
" or to either ſide, without at all turning her body, like a well man-
" aged horſe: but if the capricious fly took wing and pitch'd upon
" another place behind our huntreſs, then would the Spider whirle its
" body ſo nimbly about, as nothing could be imagin'd more ſwift;
" by which means, ſhe always kept the head towards her prey,
" though to appearance, as immovable, as if it had been a nail driven
" into the wood, till by that indiſcernible progreſs (being arriv'd with-
" in the ſphere of her reach) ſhe made a fatal leap (ſwift as lightning)
" upon the fly, catching him in the pole, where ſhe never quitted
" hold

" hold till her belly was full, and then carried the remainder home.
" I have beheld them inſtructing their young ones, how to hunt,
" which they would ſometimes diſcipline for not well obſerving;
" but when any of the old ones did (as ſometimes) miſs a leap, they
" would run out of the field, and hide themſelves in their crannies,
" as aſham'd, and haply not to be ſeen abroad for four or five hours
" after: for ſo long have I watched the nature of this ſtrange inſect,
" the contemplation of whoſe ſo wonderful ſagacity and addreſs has
" amaz'd me; nor do I find in any chaſe whatſoever, more cunning
" and ſtratagem obſerv'd. I have found ſome of theſe Spiders in my
" garden, when the weather (towards the ſpring) is very hot, but
" they are nothing ſo eager of hunting as they are in *Italy*".

ALL kinds of Spiders ſeem to be creatures of prey, and to feed on other ſmall inſects, but their ways of catching them are very differing: the ſhepherd Spider by running on his prey; the jumping Spider by leaping on it, other ſorts weave nets, or cobwebs, whereby they enſnare them, nature having both fitted them with materials and tools, and taught them how to work and weave their nets, and lie perdue, and to watch diligently to run on a fly as ſoon as ever entangled.

THEIR thread or web ſeems to be ſpun out of ſome viſcous kind of excrement, lying in their belly, which, though ſoft when drawn out, is preſently, by reaſon of its ſmalneſs, hardned and dried by the ambient air. Examining ſeveral of which with my microſcope, I found them to appear much like white horſe-hair, or ſome ſuch tranſparent horny ſubſtance, and to be of very differing magnitudes; ſome appearing as big as a pig's briſtle, others equal to a horſe-hair; others no bigger than a man's hair; others yet ſmaller, and finer. I obſerv'd

further,

further, that the radiating chords of the web were much bigger, and ſmoother than thoſe that were woven round, which ſeem'd ſmaller, and all over knotted or pearl'd, with ſmall tranſparent globules, not unlike ſmall cryſtal beads, or ſeed pearls, thin ſtrung on a clew of ſilk; which, whether they were ſo ſpun by the Spider, or by the adventitious moiſture of a fog (which I have obſerv'd to cover all theſe filaments with ſuch cryſtalline beads) I will not diſpute.

THESE threads were ſome of them ſo ſmall, that I could very plainly, with the microſcope, diſcover the ſame conſecutions of colour as in a priſm, and they ſeem'd to proceed from the ſame cauſe with thoſe colours which I have already deſcrib'd in thin plated bodies.

MUCH reſembling a cobweb, or a confus'd lock of theſe cylinders, is a certain white ſubſtance which, after a fog, may be obſerv'd to fly up and down the air; catching ſeveral of thoſe, and examining them with my microſcope, I found them to be much of the ſame form, looking moſt like to a flake of worſted produc'd to be ſpun, though by what means they ſhould be generated, or produc'd, is not eaſily imagined: they were of the ſame weight, or very little heavier than the air; and 'tis not unlikely, but that thoſe great white clouds, that appear all the ſummer time, may be of the ſame ſubſtance.

Of

Of the TARANTULA; *by the Learned* Dr. MEAD.

THE *Tarantula* is a Spider of *Apulia* of the octonocular kind; that is of that ſpecies that has eight eyes, and ſpins webs; it has eight legs, four on each ſide, and in each leg three joints; from the mouth proceed two darts, in ſhape juſt like to a hooked *forceps*, or crab's claws; theſe are ſolid, and very ſharp, ſo that they can eaſily pierce the skin; and between thoſe and the fore legs there are two little horns, which, I ſuppoſe, do anſwer to thoſe bodies call'd from their uſe in flies the feelers; becauſe as they do, ſo this creature is obſerved to move 'em very briskly when it approaches to its prey.

THIS, as other Spiders do, propagates its ſpecies by laying eggs, which are very numerous; ſo that there are found ſometimes in the female, when diſſected, a hundred or more; and theſe are hatched partly by the heat of the mother, partly by that of the ſun, in about twenty or thirty days time.

IN the ſummer months, eſpecially when the heats are greateſt, as in the dog-days, the *Tarantula* creeping among the corn in the fields, bites the mowers and paſſengers. In the winter it lurks in holes, and is ſcarcely ſeen; and if it does bite then, it is not venomous, neither does it induce any ill ſymptoms.

BUT in the hot weather, altho' the pain of its bite is at firſt no greater than what is cauſed by the ſting of a bee, yet the part quickly after is diſcoloured with a livid, black, or yellowiſh circle, and raiſed

to

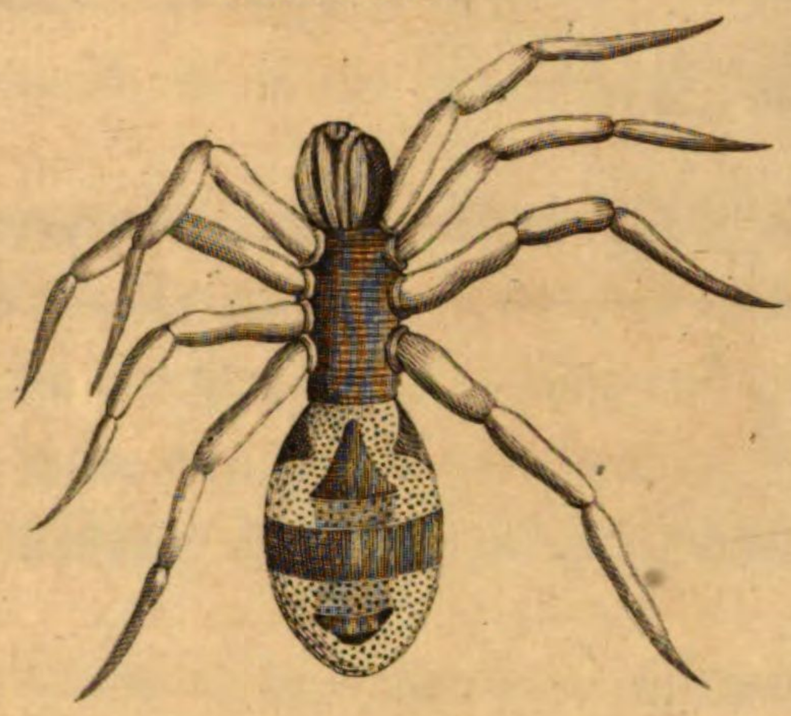
Plate XXXVIII.

The Tarantula *from*
Baglivi

The Tarantula *from the natural*
Spider in Sr. Hans Sloane's, Collection

Plate XXXIX.

the upper Side of the
Tarantula



the under Side of the
Tarantula

from Samuel Hafenreffer M D: et P.P.

to an inflam'd ſwelling; the patient within a few hours is ſeized with a violent ſickneſs, difficulty of breathing, univerſal faintneſs, and ſometimes trembling with a weakneſs of the head; being asked what the ail is, makes no reply, or with a querulous voice, and melancholy look, points to his breaſt, as if the heart was moſt affected.

DURING this mournful ſcene, all the uſual alexipharmic and cordial medicines are of no ſervice; for, notwithſtanding their repeated uſe, the patient growing by degrees more melancholy, ſtupid, and ſtrangely timorous, in a ſhort time expires; unleſs muſick be called to his aſſiſtance, which alone, without the help of medicine, performs the cure.

FOR, at the firſt ſound of the muſical inſtrument, altho' the ſick lie, as it were, in an apoplectick fit, they begin by degrees to move their hands and feet, till at laſt they get up, and fall to dancing with wonderful vigour, at firſt for three or four hours; then they are put to bed, refreſhed from their ſweating, for a ſhort time, and repeat the exerciſe with the ſame vehemence, perceiving no wearineſs or weakneſs from it, but profeſſing they grow ſtronger and nimbler the more they dance.

AT this ſport they uſually ſpend twelve hours a day, and it continues three or four-days; by which time they are generally freed from all their ſymptoms, which do nevertheleſs attack 'em again about the ſame time the next year; and if they do not take care to prevent this relapſe by muſick, they fall into a jaundice, want of appetite, univerſal weakneſs and ſuch like diſeaſes; which are every year increaſed, if dancing be neglected, till at laſt they prove incurable.

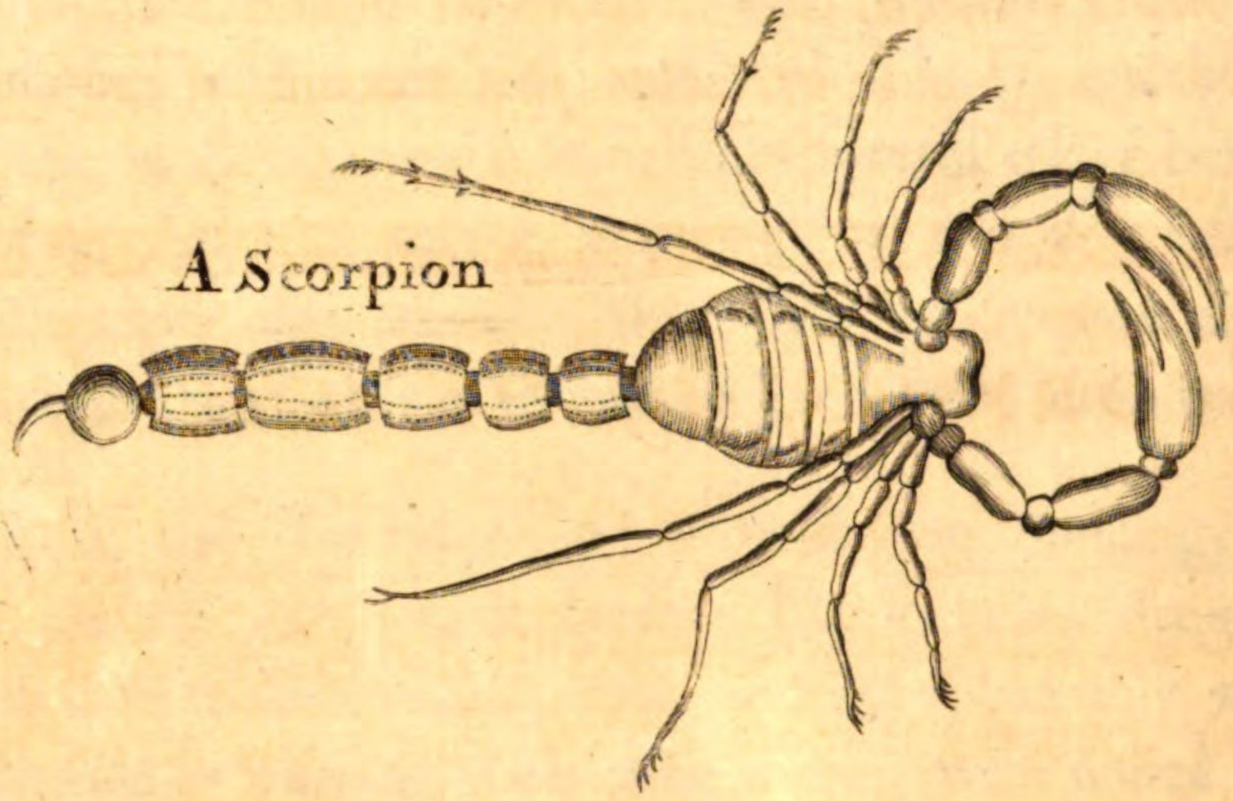
As muſick is the common cure, ſo they who are bitten are pleas'd, ſome with one ſort of it, ſome with another; one is rais'd with a pipe, another with a timbrel; one with a harp, another with a fiddle; ſo that the muſicians make ſometimes ſeveral eſſays before they can accommodate their art to the venom; but this is conſtant and certain, notwithſtanding this variety, that they all require the quickeſt and briskeſt tunes, and are never moved by a ſlow, dull harmony.

WHILE the *Tarantati*, or affected, are dancing, they loſe in a manner the uſe of all their ſenſes; like ſo many drunkards, do many ridiculous and fooliſh tricks; talk and act obſcenely and rudely, take great pleaſure in playing with vine leaves, with naked ſwords, and red cloths, and the like; and on the other hand can't bear the ſight of any thing black; ſo that if any by-ſtander happen to appear in that colour, he muſt immediately withdraw, or otherwiſe they relapſe into their ſymptoms with as much violence as ever.

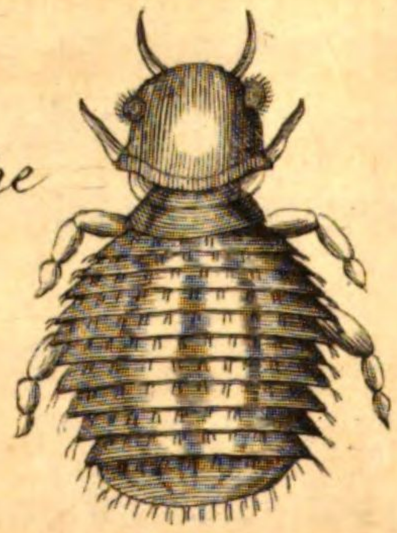
IT may afford ſome light towards underſtanding the nature of this poiſon, to obſerve that *Apulia* is the hotteſt part of all *Italy*, lying eaſtward, and having all the ſummer long but very little rain to temper the heats, ſo that the inhabitants, as one of that country obſerves, do breath an air, as it were, out of a fiery furnace; hence their temperament is dry, and aduſt, as appears by their being generally lean, paſſionate, impatient, ready to action, quick-witted, very ſubject to inflammatory diſtempers, phrenſies, melancholy, and the like; upon which account there are more mad people in this, than in all the other parts of *Italy*. As to the return of the ſymptoms the next year, that is owing to the ſame exceſſive heat in thoſe months, acting again upon the ſmall remains of the venomous ferment. Thoſe that are deſirous

to

A Scorpion



The Louſe *of the* African Hen



The Scorpion *in his posture of striking.*

to know more concerning the nature, of this ſtrange inſect, the effects of its venom, and the cauſes of thoſe ſurpriſing ſymptoms attending it, I refer to Dr. *Mead*'s mechanical account of poiſons, from whence (with the author's leave) I have extracted this account of the *Tarantula*.

Of the SCORPION, *By the ſame learned* AUTHOR.

OF ſtinging animals the Scorpion is the chief, whoſe *virus* in different countries is more or leſs dangerous, according as 'tis exalted by various degrees of heat; thus in *Africa*, particularly, its effects are ſo dreadful, that as *Leo* tells us, the town *Peſcara*, there, is in a manner left deſolate by the inhabitants in the ſummer, by reaſon of the great abundance of theſe creatures, certain death following their ſting.

SOME of this deadly kind, exhibited in Plate XL, *Seignior Redi*, had ſent him from *Tunis*; and it being *November*, irritated them to ſting pigeons, pullets, *&c.* without any bad effect at all of their poiſon, but upon the approaching ſpring, one of them which had been kept all the winter, nay, eight months, without any food, and the wound of whoſe ſting before was harmleſs, ſtung to death two pigeons ſucceſſively; but a third and fourth wounded in like manner, ſuffer'd no hurt. Yet having let the Scorpion reſt all night, he killed another pigeon the next morning.

AT the point of the ſting he very often could diſcern a ſmall drop of white liquor, which when the wound was made, entered into the fleſh.

AS this liquid venom is either not ſeparated from the blood into the cavity of the ſting, during the cold of winter, or at leaſt the Scorpion wants ſtrength at that time to throw it out with force and energy; ſo, even in the hot months, after it is exhauſted by two or three attacks, the ſting, is no longer hurtful, till the expenſe of this juice is recruited by time.

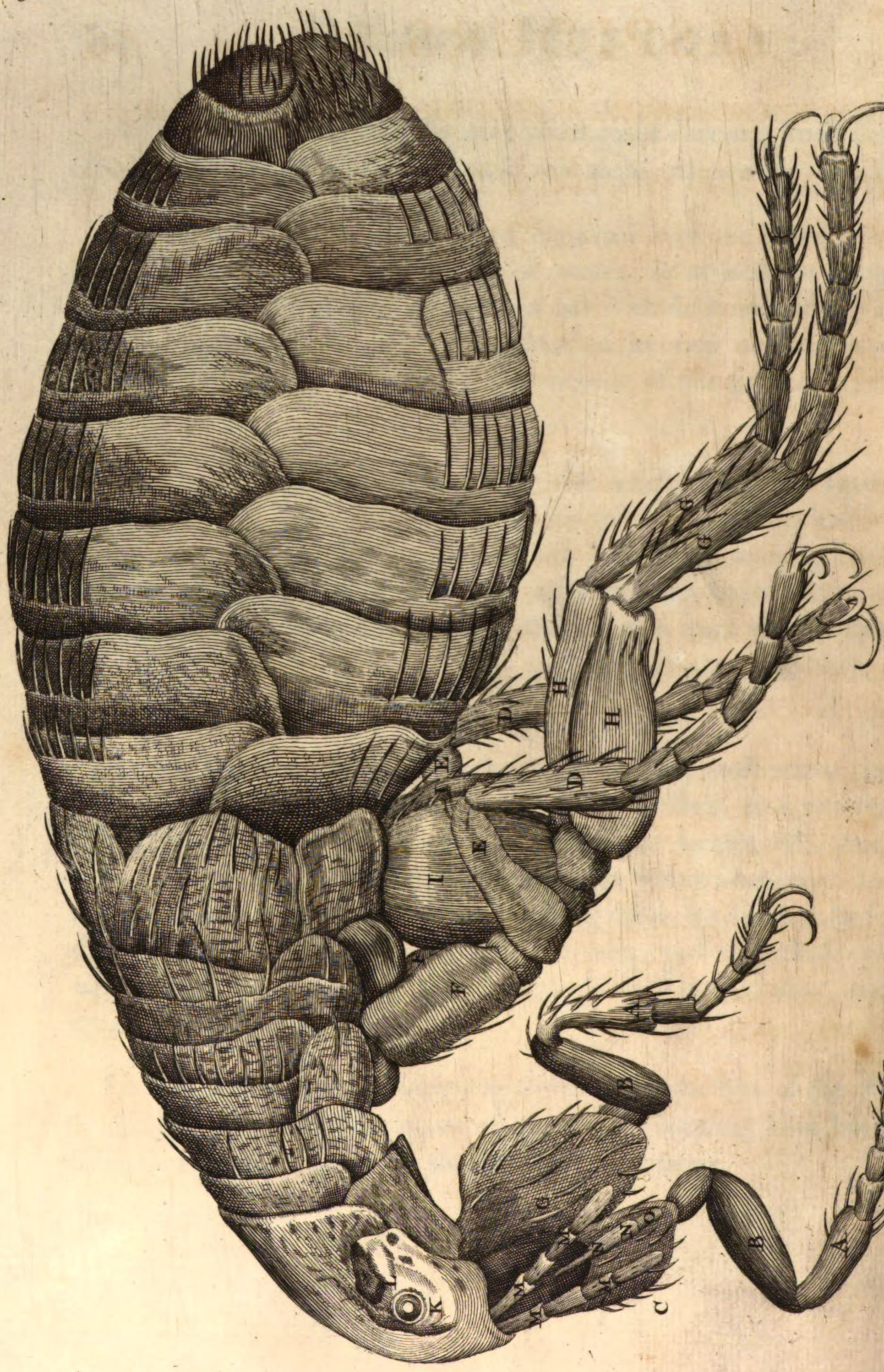
'TIS very remarkable concerning this inſect, what an ingenious gentleman, who lived ſeveral years in *Barbary*, told me he had many times tried; that if it be ſurrounded with a circle of burning coals, it does, upon the ſenſe of the heat, turn itſelf violently every way to make an eſcape; but finding it impoſſible, and the pain from the fire increaſing, it ſtrikes itſelf twice or thrice with the ſting on the back, and immediately dies of the wounds.

AS the *viperine* venom is the quinteſſence, and moſt active part of thoſe animal juices with which the Viper is nouriſhed, ſo is alſo that of the Scorpion; for this inſect lives chiefly upon locuſts, *&c.* And the ſame perſon from *Barbary* inform'd me, that ſeeing oftentimes locuſts ſticking up in the ground, as if they were ſet there, by looking, he found that ſome part of them was always eat away, and that thoſe places were the holes of Scorpions, who had dragg'd their prey thither, and fed on it as they had occaſion.

IN like manner as the *anungia viperina* cures the bite of the *Viper*, ſo alſo the *oleum Scorpionum*, or oil in which Scorpions have been infuſed, is a preſent remedy for the ſting of this creature.

Obſerv-

Plate XLI.



I. Carwitham Sculp.

Obſervations on the FLEA, *and* LOUSE;

By the late ingenious Dr. HOOKE, *F. R. S.*

THE ſtrength and beauty of the firſt of theſe, creatures, the flea, had it no other relation at all to man, would deſerve a deſcription.

FOR its ſtrength, the microſcope is able to make no greater diſcoveries of it than the naked eye, but only the curious contrivance of its legs and joints, for the exerting that ſtrength, is very plainly manifeſted, ſuch as no other creature, I have yet obſerv'd, has any thing like it; for the joints of it are ſo adapted, that he can, as 'twere, fold them ſhort one within another, and ſuddenly ſtretch, or ſpring them out to their whole length, that is, of the fore-legs, the part A of Plate, XLI. lies within B, and B within C parallel to, or ſide by ſide each other; but the parts of the two next, lie quite contrary, that is, D without E, and E without F, but parallel alſo; but the parts of the hinder legs G, H and I, bend one within another, like the parts of a double jointed rule, or like the foot, leg, and thigh of a man; theſe ſix legs he clitches up all together, and when he leaps, ſprings them all out, and thereby exerts his whole ſtrength at once.

BUT, as for the beauty of it, the microſcope manifeſts it to be all over adorn'd with a curiouſly poliſh'd ſuit of ſable armour, neatly jointed, and beſet with multitudes of ſharp pins, ſhap'd almoſt like porcupine's quills, or bright conical ſteel-bodkins; the head is on either ſide beautify'd with a quick and round black eye K, behind each of which alſo appears a ſmall cavity, L, in which he ſeems to move to

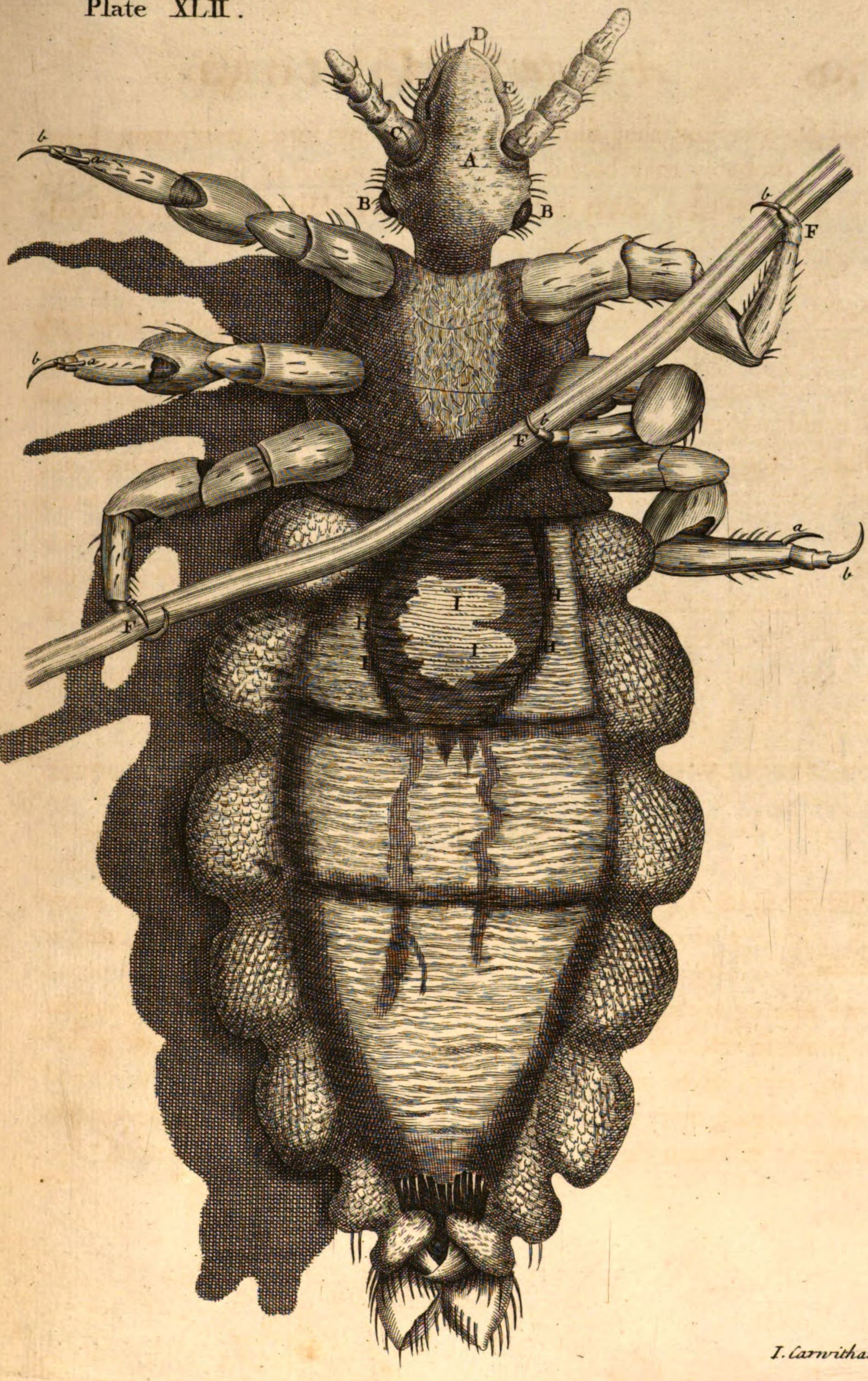
and

and fro a certain thin film beſet with many ſmall tranſparent hairs, which probably may be his ears; in the forepart of his head, between the two fore-legs, he has two ſmall long jointed feelers, or rather ſmellers, M M, which have four joints, and are hairy, like thoſe of ſeveral other creatures; between theſe, it has a ſmall *proboſcis*, or *probe*, N N O, that ſeems to conſiſt of a tube N N, and a tongue or ſucker O, which I have perceiv'd him to ſlip in and out. Beſides theſe, it has two chaps or biters P P, which are ſomewhat like thoſe of an ant, but I could not perceive them tooth'd; theſe were ſhap'd very like the blades of a pair of round top'd Sciſſers, and were opened and ſhut juſt after the ſame manner; with theſe inſtruments does this little buſie creature bite and pierce the skin, and ſuck out the blood of animals, leaving the skin inflamed with a ſmall round red ſpot. Theſe parts are very difficult to be diſcovered, becauſe, for the moſt part, they lye covered between the fore-legs. There are many other particulars, which, beingmore obvious, and affording no great matter of information, I ſhall paſs by, and refer the reader to the Figure.

Of the LOUSE.

THIS is a creature ſo officious, that 'twill be known to every one at one time or other, ſo buſie, and ſo impudent, that it will be intruding itſelf in every one's company, and ſo proud and aſpiring withal, that it fears not to trample on the beſt, and affects nothing ſo much as a crown; feeds and lives very high, and that makes it ſo ſaucy, as to pull any one by the ears that comes in his way, and will never be quiet till it has drawn blood: it is troubled at nothing ſo much as at a man that ſcratches his head, as knowing that man is plotting

Plate XLII.



I. Carwitham Sculp.

ting and contriving ſome miſchief againſt it, and that makes it oftentimes ſculk into ſome meaner and lower place, and run behind a man's back, though it go very much againſt the hair; which ill conditions of it having made it better known than truſted, would exempt me from making any further deſcription of it, did not my faithful *Mercury*, my microſcope, bring me other information of it. For it has diſcovered to me, by means of a very bright light caſt on it, that it is a creature of a very odd ſhape; it has a head ſhap'd like that expreſſed in Plate XLII, marked with A, which ſeems almoſt conical, but is a little flatted on the upper and under ſides, at the biggeſt part of which, on either ſide behind the head (as it were, being the place where other creatures ears ſtand) are placed its two black ſhining goggle eyes B B, looking backwards, and fenced round with ſeveral ſmall *cilia* or hairs that incompaſs it ſo that it ſeems this creature has no very good foreſight: It does not ſeem to have any eye-lids, and therefore perhaps its eyes were ſo placed, that it might the better cleanſe them with its forelegs; and perhaps this may be the reaſon, why they ſo much avoid and run from the light behind them; for being made to live in the ſhady and dark receſſes of the hair, and thence probably their eyes having a great aperture, the open and clear light, eſpecially that of the ſun, muſt needs very much offend them; to ſecure theſe eyes from receiving any injury from the hairs through which it paſſes, it has two horns that grow, before it, in the place where one would have thought the eyes ſhould be; each of theſe C C hath four joints, which are fringed, as 'twere, with ſmall briſtles, from which to the tip of its ſnout D, the head ſeems very round and tapering, ending in a very ſharp noſe D which ſeems to have a ſmall hole, and to be the paſſage through which he ſucks the blood. Now whereas if it be plac'd on its back, with its belly upwards, as it is in the Plate, it ſeems in ſeveral poſitions to have

have a reſemblance of chaps, or jaws, as is repreſented in the Plate by E E, yet in other poſtures thoſe dark ſtrokes diſappear; and having kept ſeveral of them in a box for two or three days, ſo that for all that time they had nothing to feed on, I found, upon letting one creep on my hand, that it immediately fell to ſucking, and did neither ſeem to thruſt its noſe very deep into the skin, or open any kind of mouth, but I could plainly perceive a ſmall current of blood, which came directly from its ſnout, and paſt into its belly, and about A there ſeem'd a contrivance, ſomewhat reſembling a pump, pair of bellows, or heart, for by a very ſwift *ſyſtole* and *diaſtole* the blood ſeem'd drawn from the noſe, and forced into the body. It did not ſeem at all, though I viewed it a good while as it was ſucking, to thruſt more of its noſe into the skin than the very ſnout D, nor did it cauſe the leaſt diſcernible pain, and yet the blood ſeem'd to run through its head very quick and freely, ſo that it ſeems there is no part of the skin but the blood is diſpers'd into, nay, even into the *cuticula*; for had it thruſt its whole noſe in from D to C C, it would not have amounted to the ſuppoſed thickneſs of that *tegument*, the length of the noſe being not more than a three hundredth part of an inch. It has ſix legs, covered with a very tranſparent ſhell, aud jointed exactly like a crab's, or lobſter's; each leg is divided into ſix parts by theſe joints, and thoſe have here and there ſeveral ſmall hairs; and at the end of each leg it has two claws, very properly adapted for its peculiar uſe, being thereby inabled to walk very ſecurely both on the skin and hair: and indeed this contrivance of the feet is very curious, and could not be made more commodiouſly and compendiouſly, for performing both theſe requiſite motions; of walking and climbing up the hair of a man's head, than it is; for by having the leſſer claw (a) ſet ſo much ſhort of the bigger (b) when

when it walks on the skin the ſhorter touches not, and then the feet are the ſame with thoſe of a mite, and ſeveral other ſmall inſects, but by means of the ſmall joints of the longer claw it can bend it round, and ſo with both claws take hold of a hair, in the manner repreſented in the Plate, the long tranſparent cylinder F F F, being a man's hair held by it.

THE thorax ſeem'd cas'd with another kind of ſubſtance than the belly, namely, with a thin tranſparent horny ſubſtance, which upon the faſting of the creature did not grow flaccid; through this I could plainly ſee the blood, ſuck'd from my hand, to be variouſly diſtributed, and mov'd to and fro; and about G there ſeem'd a pretty big white ſubſtance, which ſeem'd to be moved within its thorax; beſides, there appear'd very many ſmall milk-white veſſels, which croſt over the breaſt between the legs, out of which, on either ſide, were many ſmall branchings; theſe ſeem'd to be the veins and arteries, for that which is analogus to blood in all inſects is milk-white.

THE belly is covered with a tranſparent ſubſtance likewiſe, but more reſembling a skin than a ſhell, for 'tis grain'd all over the belly juſt like the skin in the palms of a man's hand, and when the belly is empty, grows very flaccid and wrinkled; at the upper end of this is placed the ſtomach H H, and perhaps alſo the white ſpot I I may be the liver or pancreas which by the periſtaltick motion of the guts, is a little mov'd to and fro, not with a ſyſtole and diaſtole, but rather with a thronging or juſtling motion. Viewing one of theſe creatures, after it had faſted two days, all the hinder part was lank and flaccid, and the white ſpot I I hardly mov'd, moſt of the white branchings

diſappear'd, and moſt alſo of the redneſs or ſucked blood in the guts, the periſtaltick motion of which was ſcarce diſcernible; but upon the ſuffering it to ſuck, it preſently fill'd the skin of the belly, and of the ſix ſcolop'd emboſments on either ſide, as full as it could be ſtuft; the ſtomach and guts were as full as they could hold; the periſtaltick motion of the guts grew quick, and the juſtling motion of I I accordingly; multitudes of milk-white veſſels ſeem'd quickly filled, and turgid, which were perhaps the veins and arteries, and the creature was ſo greedy, that though it could not contain more, yet it continued ſucking as faſt as ever, and as faſt emptying it ſelf behind: the digeſtion of this creature muſt needs be very quick, for though I perceived the blood thicker and blacker when ſuck'd, yet, when in the guts, it was of a very lovely ruby colour, and that part of it, which was digeſted into the veins, ſeem'd white; whence it appears, that a further digeſtion of blood may make it milk, at leaſt of a reſembling colour: What elſe is obſervable in the Figure of this creature, may be ſeen in the Plate.

As theſe vermin are natural to the bodies of the human ſpecies, ſo likewiſe, moſt birds of different kinds, ſome ſorts of fiſh, and many kinds of quadrupeds have their particular ſorts of fleas, and lice, proper and peculiar to themſelves, and manifeſtly differing from each other. *Seignior Redi*, having delineated ſome of theſe; I think it will not be foreign to the Subject, to relate the diſcoveries (he tell us) he made, by the advantage of a great many experiments.

In the hawk (ſays he) I've obſerved three diſtinct ſorts of fleas, and as many in the turkey-hen; in the wild-duck four: in the ſwan, wild-gooſe, keſtrel and plover, two: Yet it muſt be allow'd that there is

a ſort of birds that have either the ſame ſort of fleas, or ſome that are very like them. The golden-eagle, and the bird by the *Italians* call'd *vaccaio* from its keeping company with cows, as well as the keſtrel, have very large ones: which laſt named bird hath alſo another ſort of fleas no ways differing in ſhape from thoſe of the raven, but of another colour; and the raven others very like the leſſer ſort of lice found upon the *egret*. Some of the buſtard's fleas, if view'd at a diſtance, very much reſemble thoſe found upon the *egret*. On the woodpecker and chaffinch I have ſeen fleas reſembling thoſe of the ſtarling, and on the wild-duck of the larger kind, much the ſame ſort of fleas with thoſe of the wild-gooſe. In the feathers of a crane are to be found neſts of white lice, marked, as it were with arabic or algebraic characters. Farther, it is remarkable that the bigneſs of each bird's fleas bears not adequate proportion to the bigneſs of the birds they are found upon; but amongſt the larger kind of birds may be found a leſſer and larger ſort of fleas of a different kind; and I remember that I have ſeen fleas upon a blackbird as large as thoſe found upon a ſwan.

If you view fleas when upon their feet, there is not the leaſt appearance of a mouth to be diſcovered, but if you turn them upon their backs, you may diſcern the ſituation of their mouth plac'd on the underſide of the proboſcis or trunk, in the form of a pair of pinchers, much reſembling that of the wood-louſe. In a word, there is ſuch a wonderful variety of fleas of diſtinct ſorts, ſo ſtrangely different one from another, that I thought it much better to exhibit 'em drawn upon copper Plates than to give the reader a long and tedious deſcription of them. As to their colour, 'tis generally the ſame, or very near that of the feathers of the birds on which they are found. 'Tis true I muſt own I'm of opinion (which experience countenanceth) that fleas

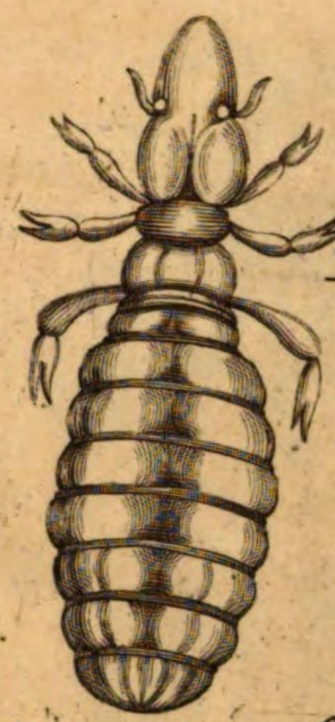
when

when they are firſt bred out of nits are white; but, as they grow bigger, by degrees aſſume other colours, yet ſo that preſerving the tranſparency of their bodies. By the help of a microſcope, the motion of their entrails, and circulation of their juices may very plainly be diſcerned.

OF thoſe larger kind of Spiders, Plate (XXXV,) *Marian* tell us ſhe found very many on the tree *Guajava*, in which they make neſts, repreſenting a caterpiller's web. They are cover'd all over with hair, arm'd beſides with ſharp pointed teeth, with which they give dangerous wounds, infuſing ſome liquid matter from them at the ſame time. Piſmires are their common food; in ſcarcity of which they take the little birds out of their neſts, and ſuck out all the blood of their little bodies. They ſhed their coats now and then, juſt as caterpillers do, yet were never obſerv'd to change into the *volatile* kind. I take this Spider to be the male to N°. 173.

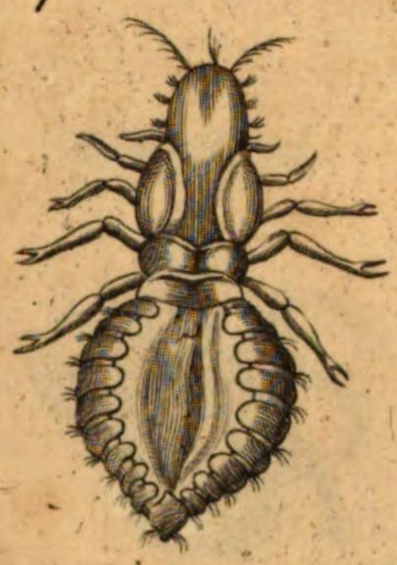
FINIS.

Plate XLIII.

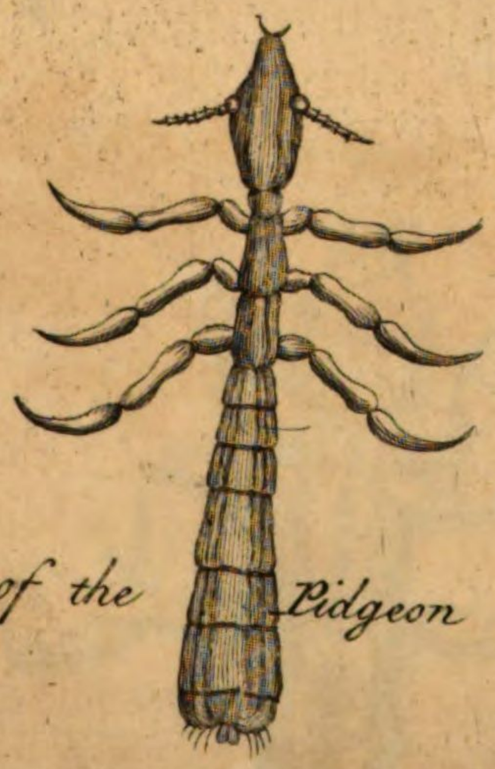


The Lowse of the Buzzard

of the Faulcon



of the Sparrow Hawk

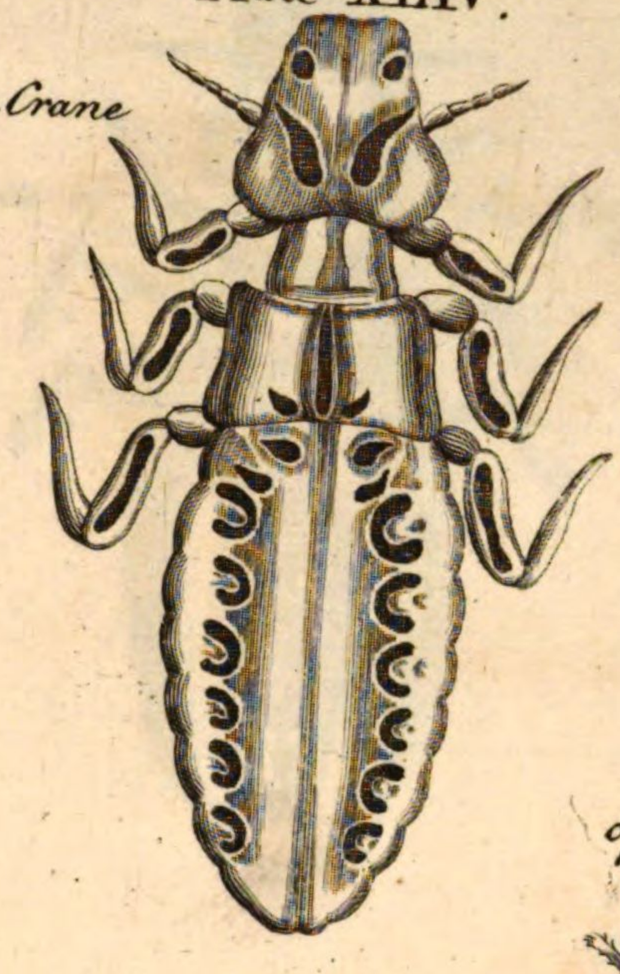


of the Pidgeon

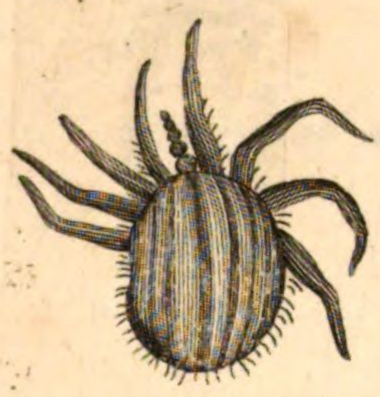
p. 76.

Plate XLIV.

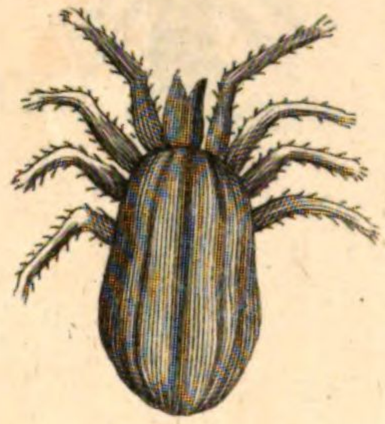
The Louse of a Crane



of the Turtle



of a tame Hen



of a Coot

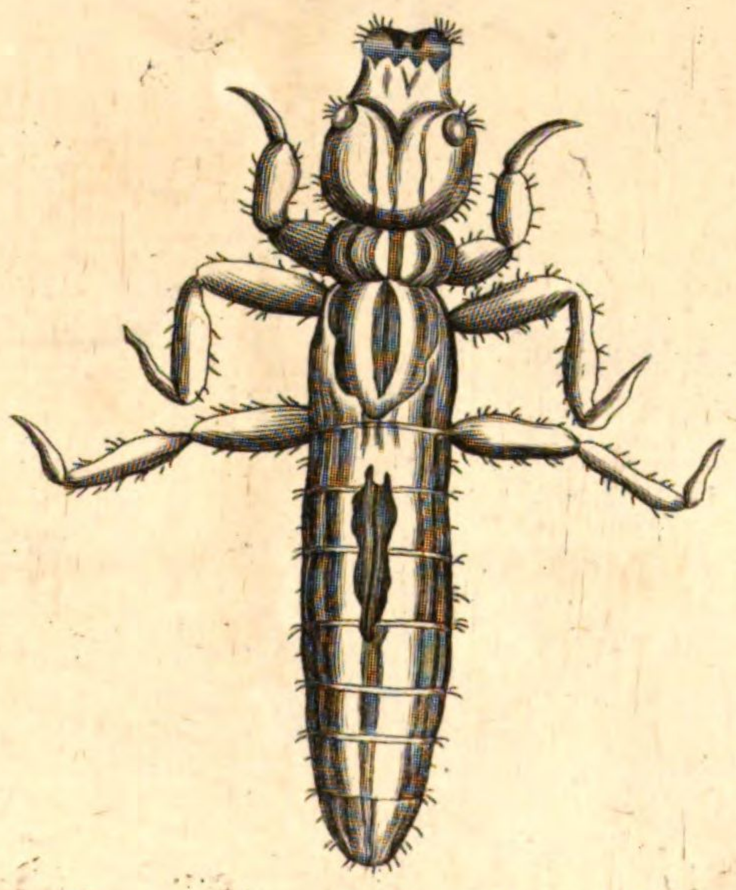
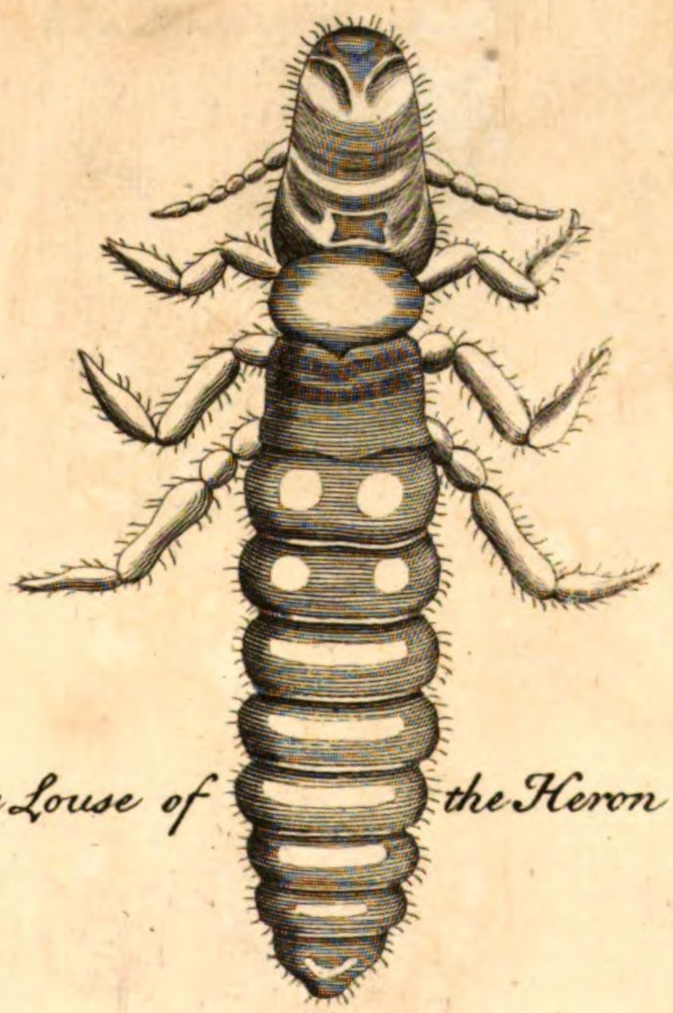


Plate XLV.

The Louse of the Magpie

of the Moor Hen ..... of the same

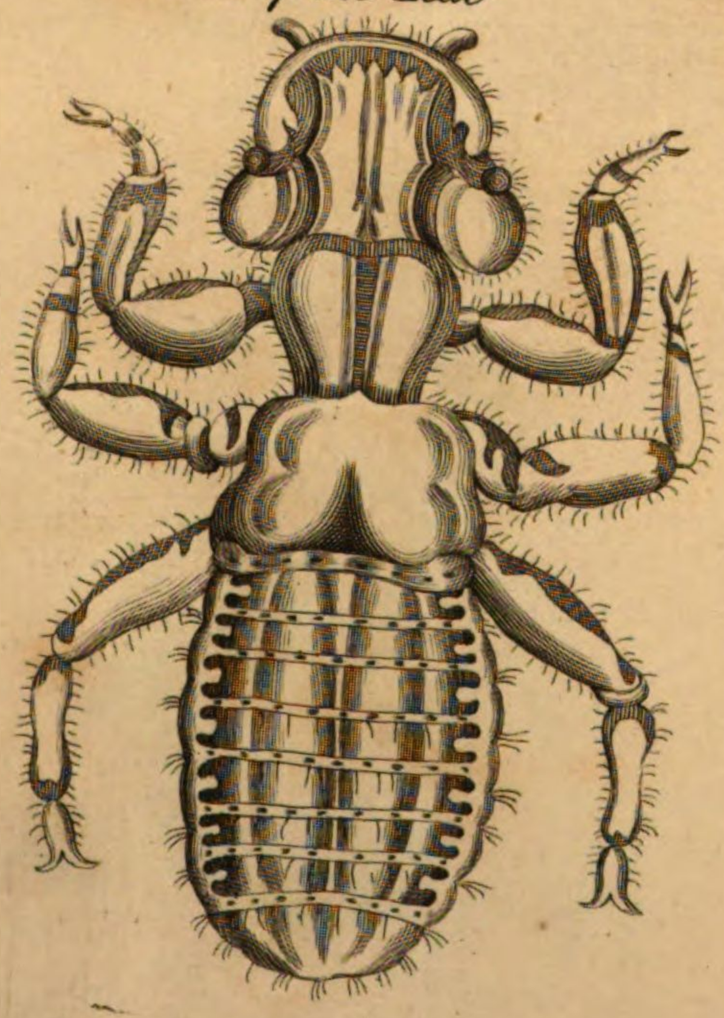


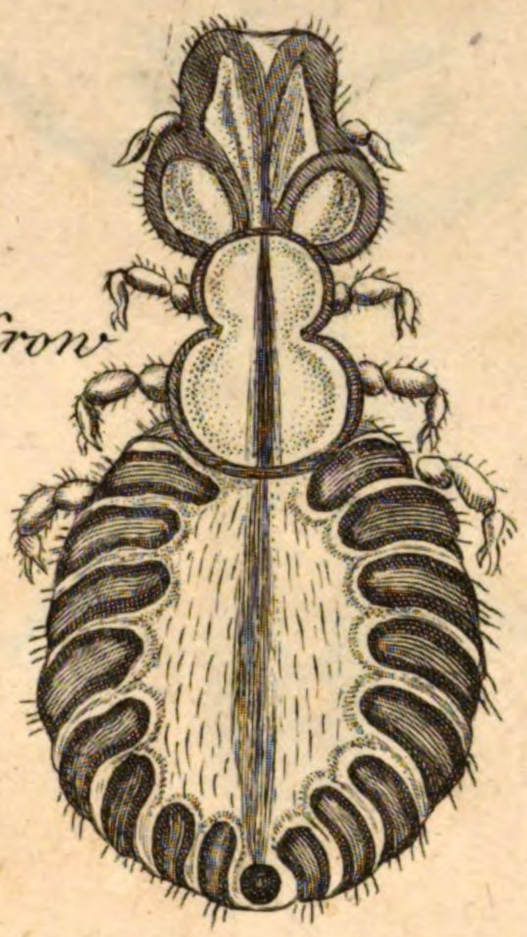
The Louse of the Heron

Plate XLVI.

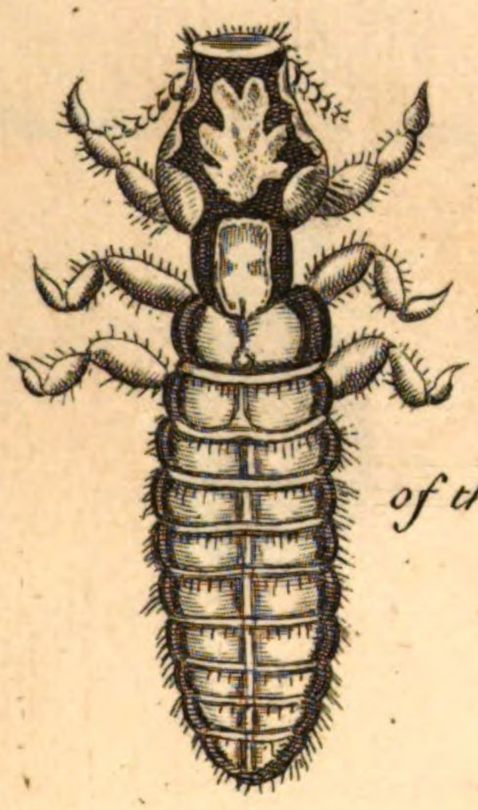
The Louse of the Cormorant

The Louse of the Teal

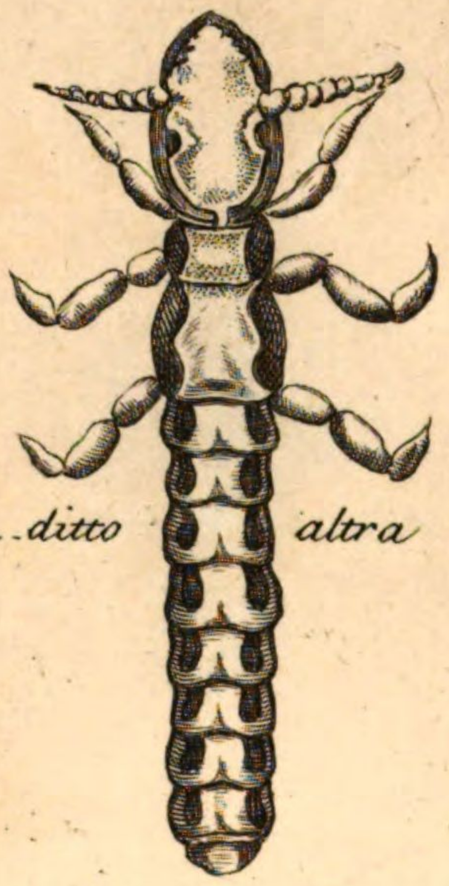




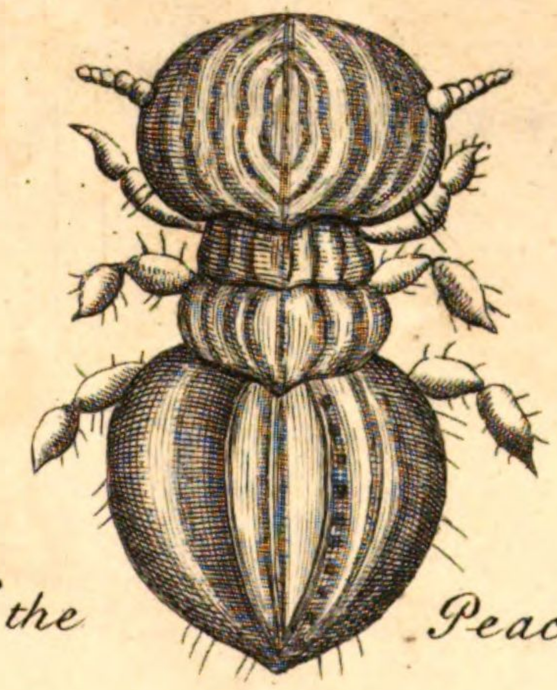
The Louse of y^e^ Crow



of the wild Goose

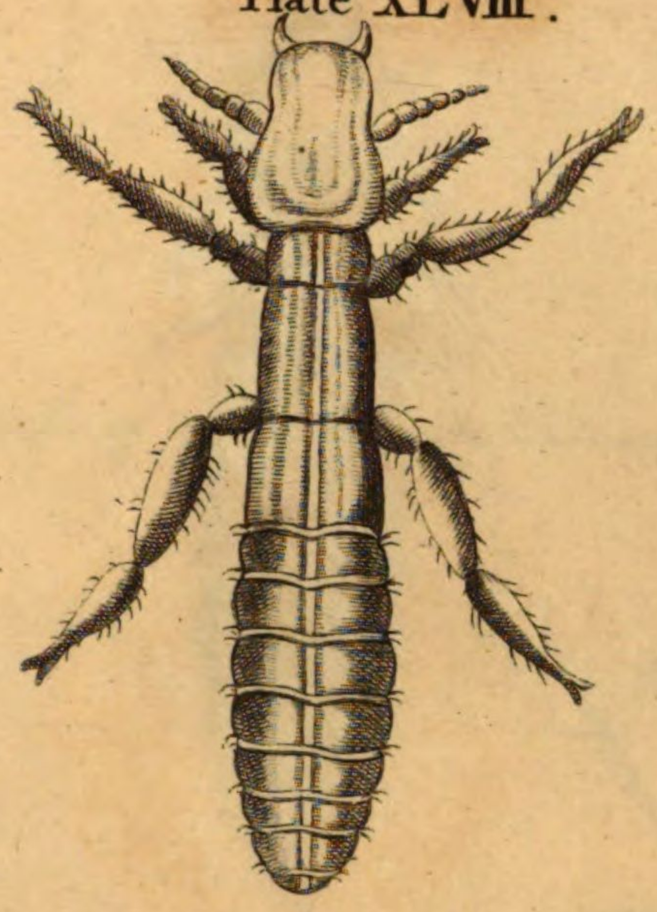


ditto *altra*

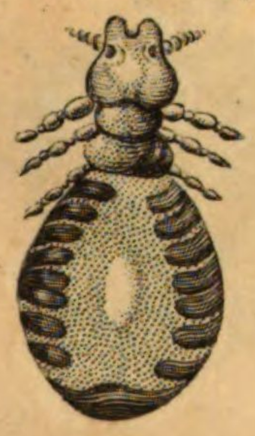


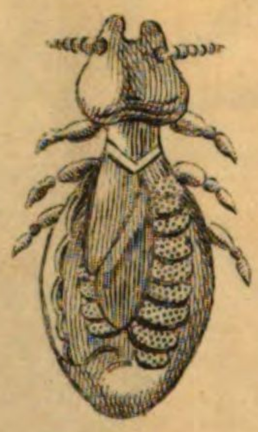
of the *Peacok*

Plate XLVIII.

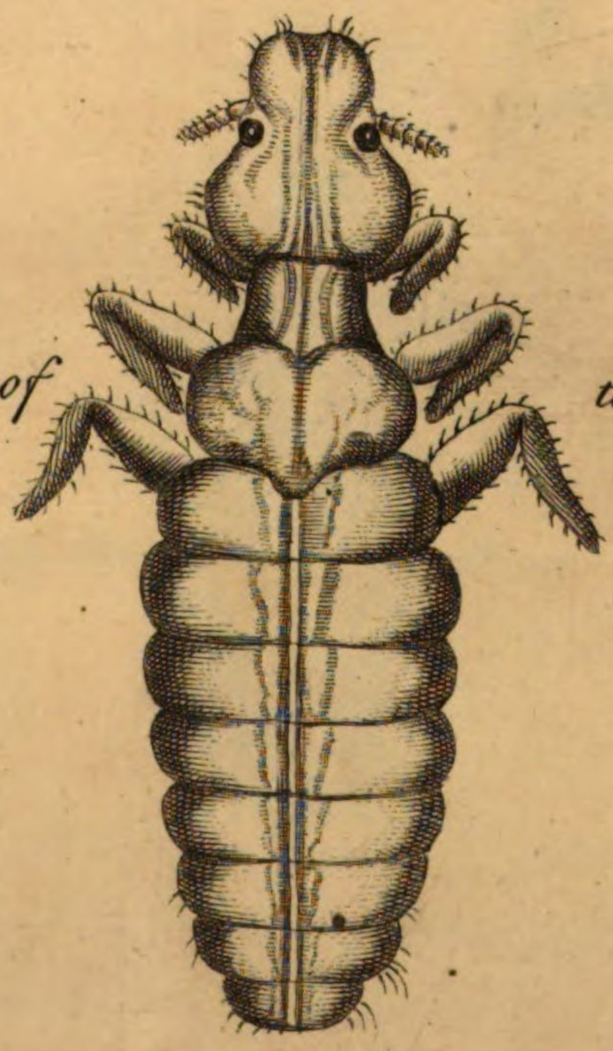


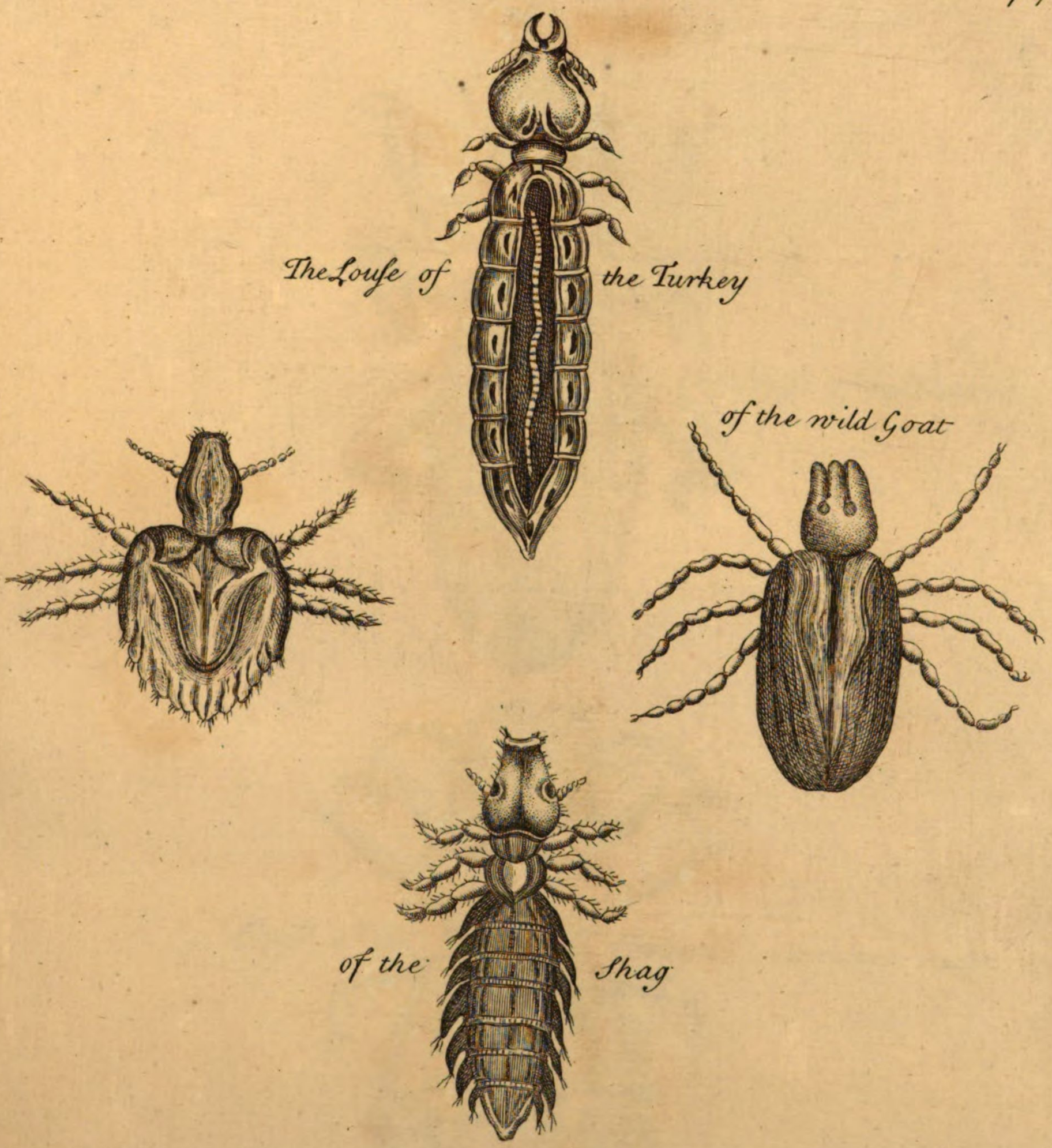
Another Swan Louse





The Louse of the Swan



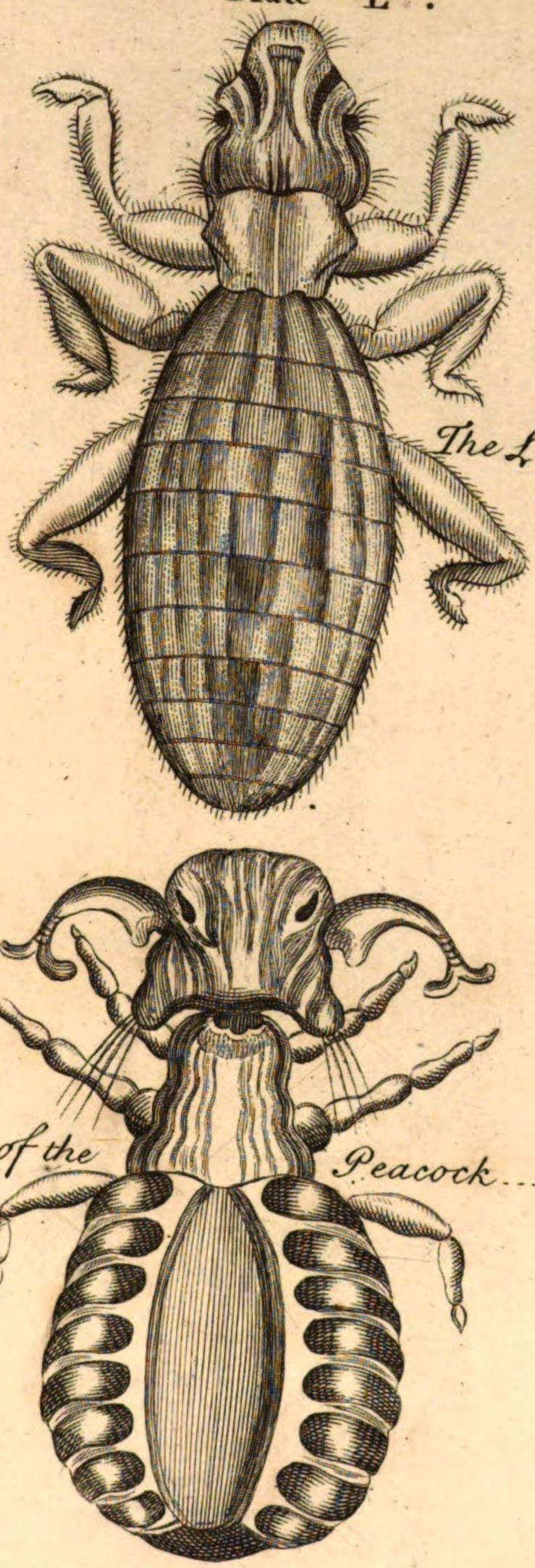


The Louse of the Turkey

of the wild Goat

of the Shag

Plate L.



The Louse of the Kestrel

Louse of the Peacock..... another in plate 47

Plate LI.

The Louse of the Camel

The Louse of the Ass.

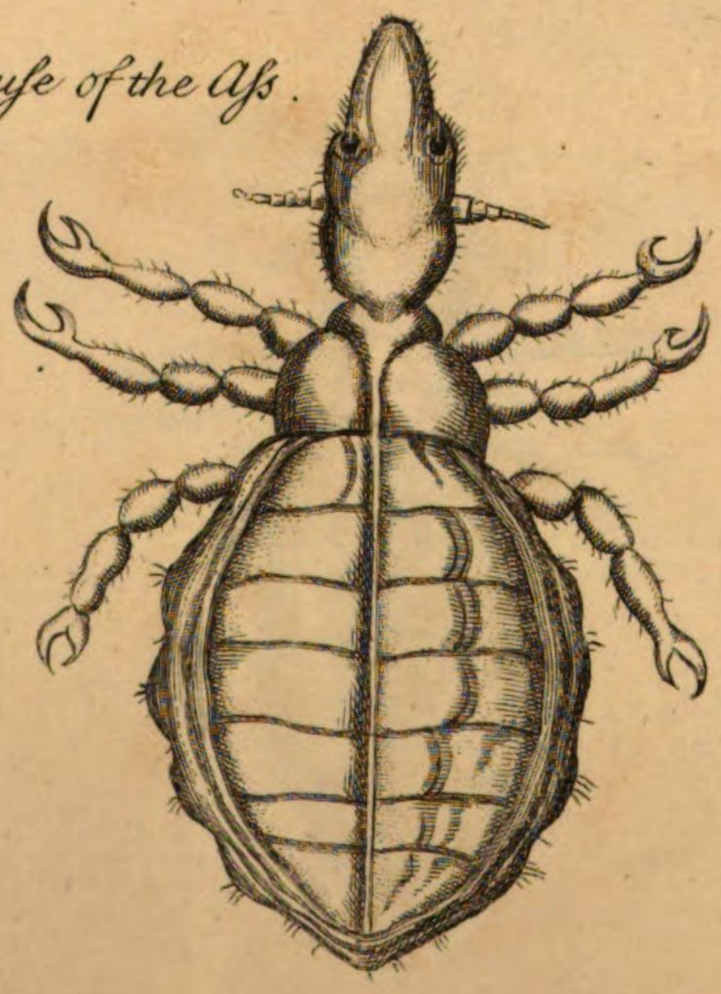
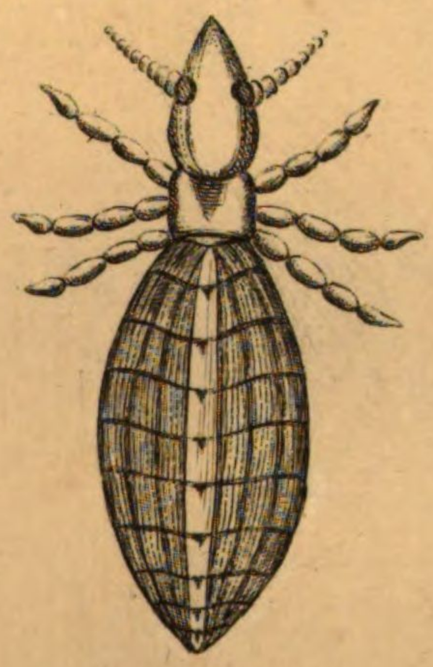


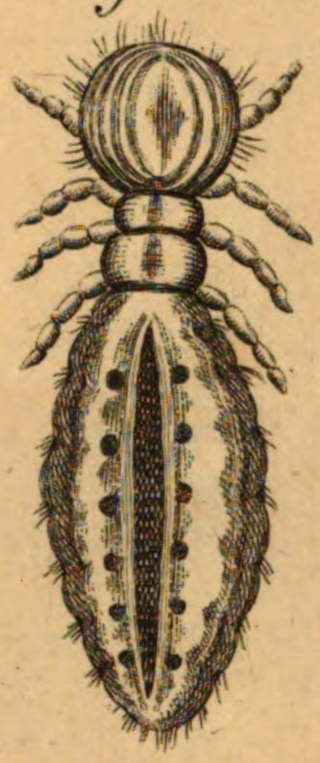
Plate LIII.

The Louse of the Starling

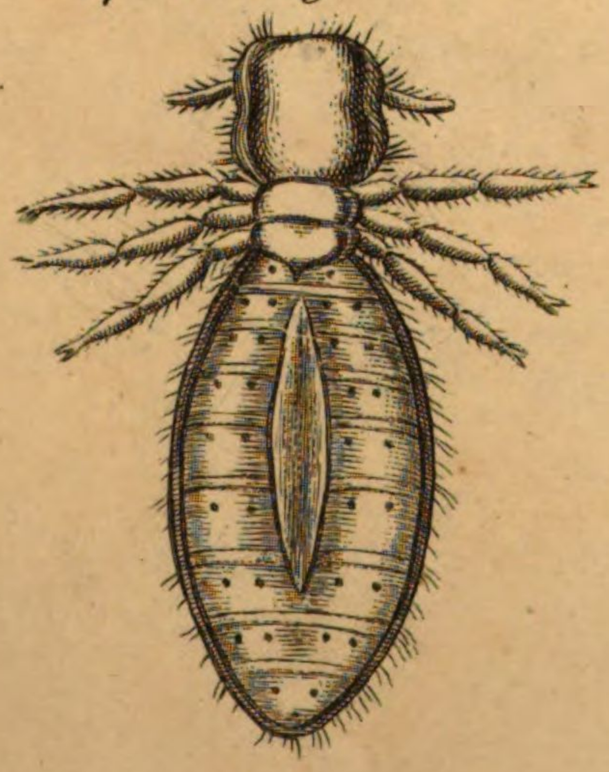
of the Deer



of the African Ram



of the Stag



BSB Bayerische StaatsBibliothek
MDZ Münchener DigitalisierungsZentrum Digitale Bibliothek

Albin, Eleazar,

The natural history of Spiders and other curious insects

London 1736
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